● PRINTER RUSH ●

(PTO ASSISTANCE)

Application :	10/002,750	**Examiner :**	Burkhart	**GAU :**	1636
From:	J. Robbins	**Location:**	(IDC) FMF FDC	**Date:**	9-7-05

Tracking #: 06094328 Week Date: 4-11-05

DOC CODE	DOC DATE	MISCELLANEOUS
☐ 1449	_____	☐ Continuing Data
☐ IDS	_____	☐ Foreign Priority
☐ CLM	_____	☐ Document Legibility
☐ IIFW	_____	☐ Fees
☐ SRFW	_____	☐ Other
☒ DRW	6-21-02	
☐ OATH	_____	
☐ 312	_____	
☐ SPEC	_____	

[RUSH] **MESSAGE:** ATTN: Chief draftsperson

Figs 1-4, 6, 37A and 37B contain a line through drawings.

Thank You

[XRUSH] **RESPONSE:**

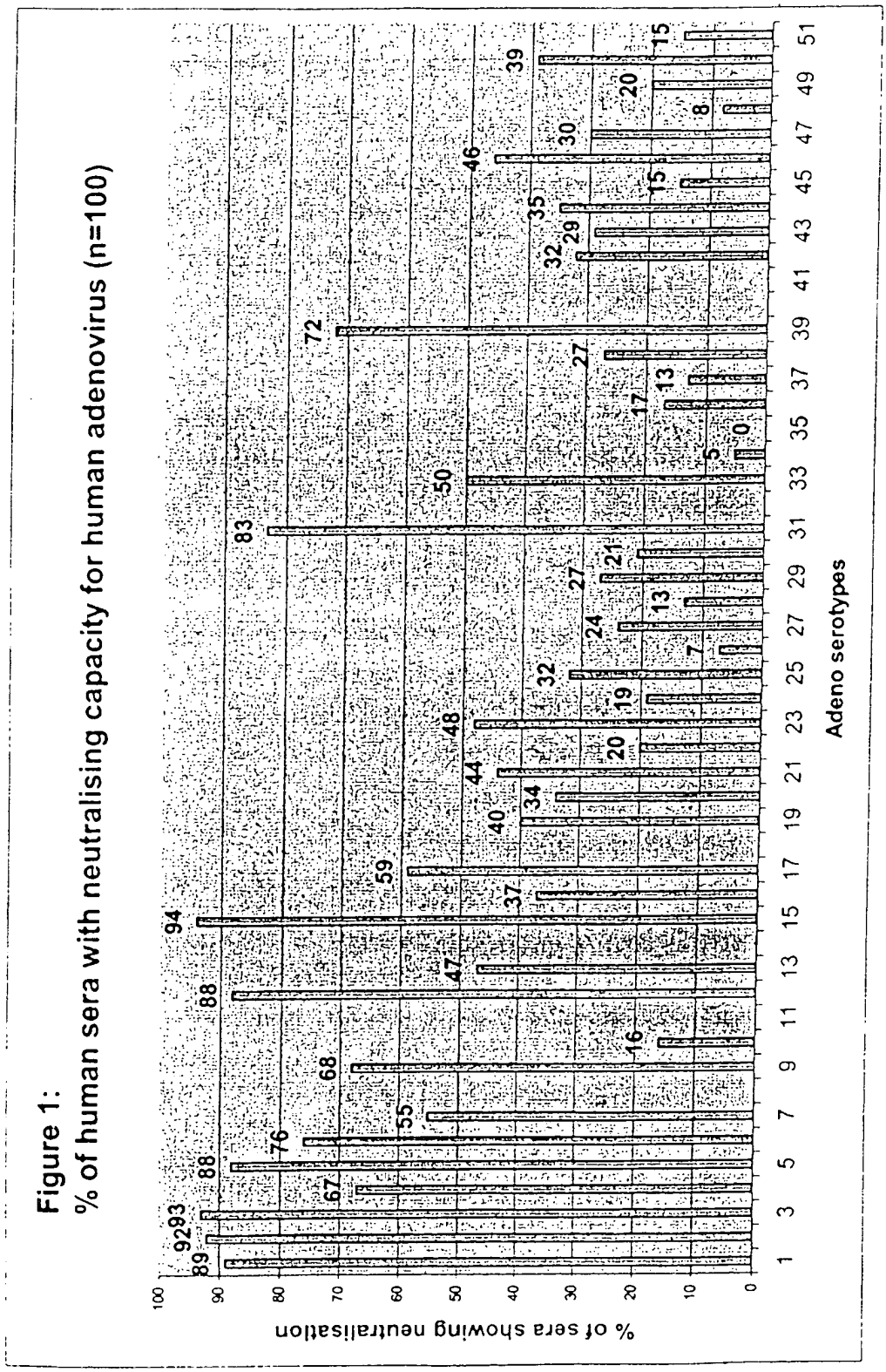
DRAWINGS CORRECTED

9-13-2005 **INITIALS:**

NOTE: This form will be included as part of the official USPTO record, with the Response document coded as XRUSH.

REV 10/04

Figure 1:
% of human sera with neutralising capacity for human adenovirus (n=100)



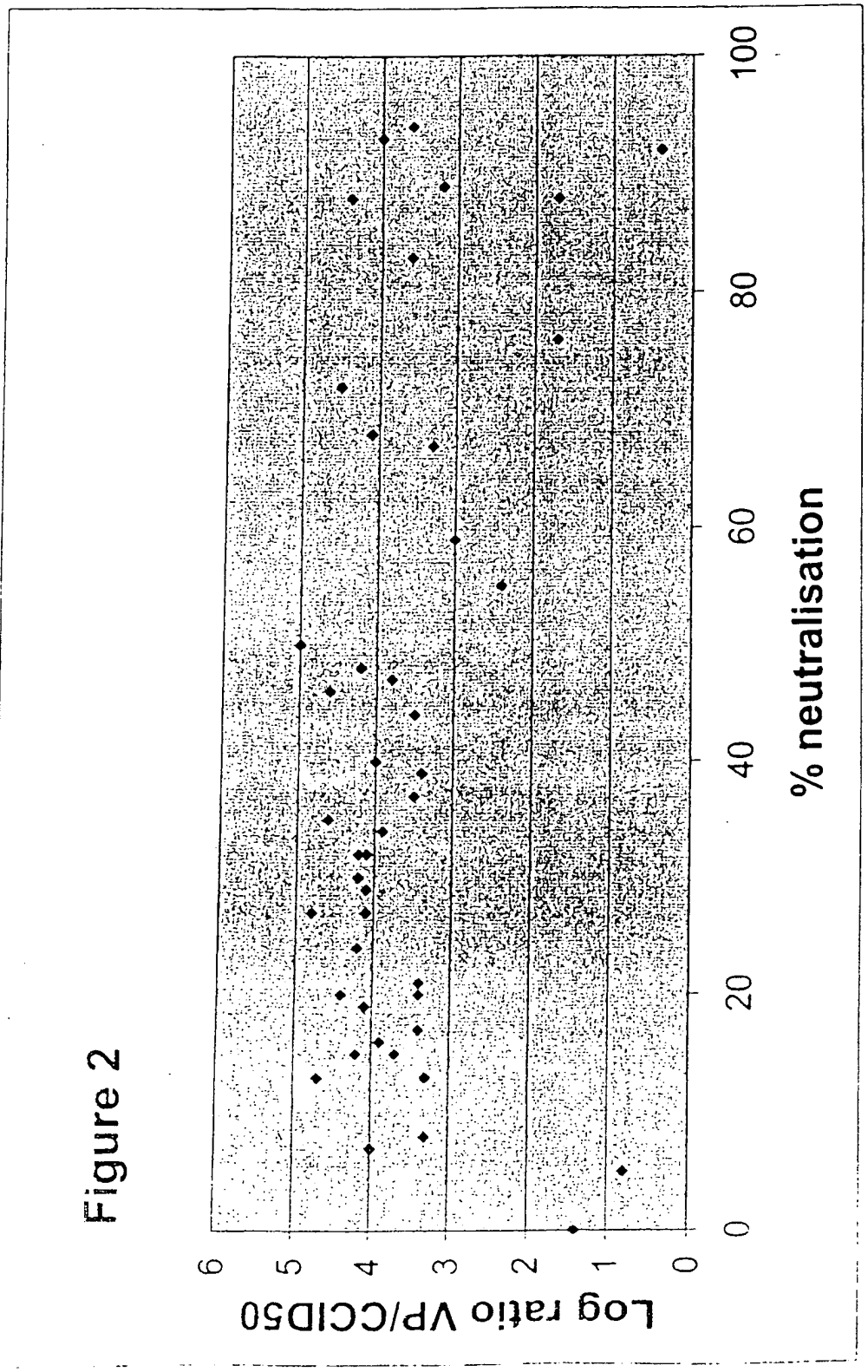


Figure 2

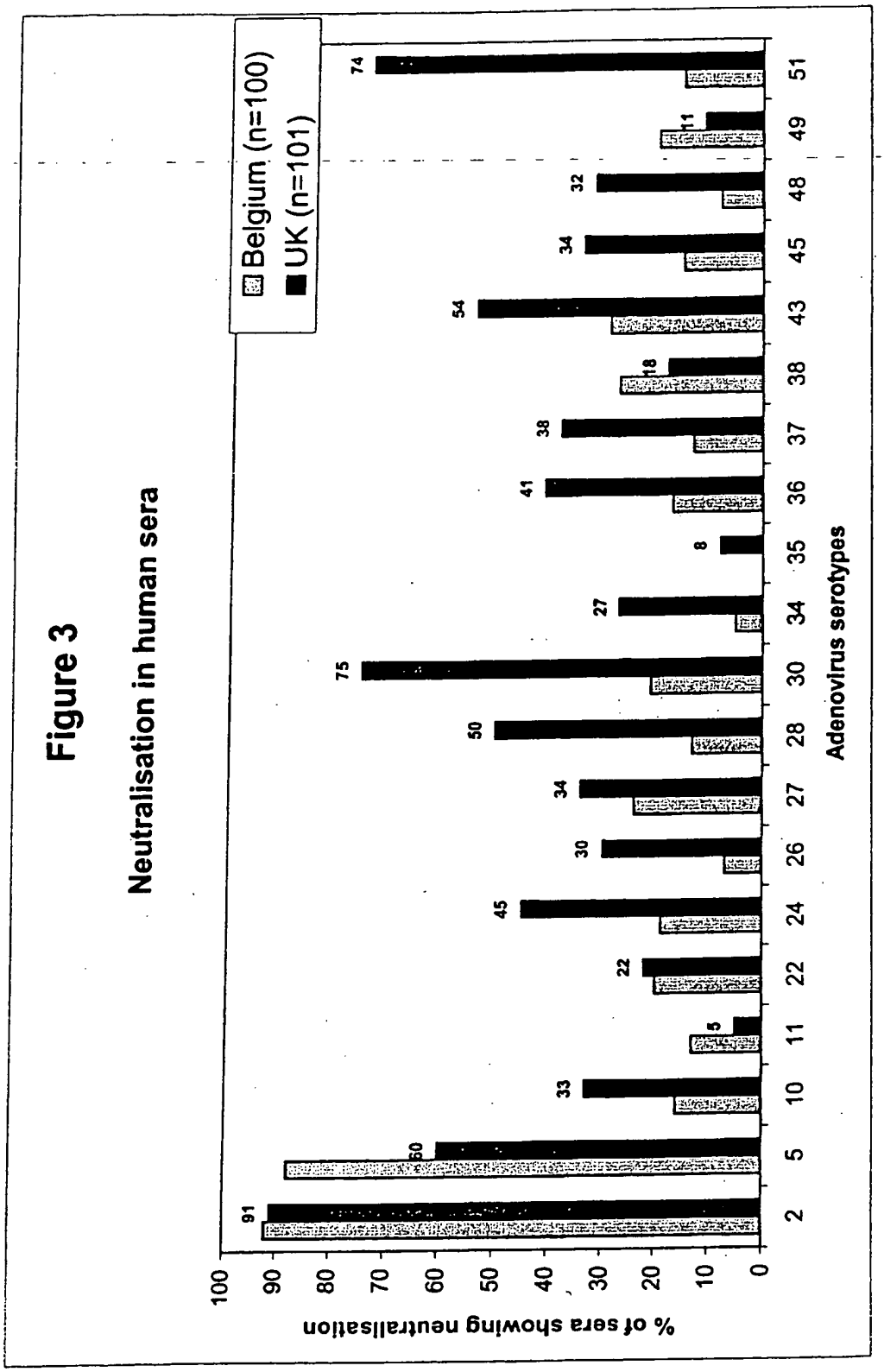


Figure 3

Neutralisation in human sera

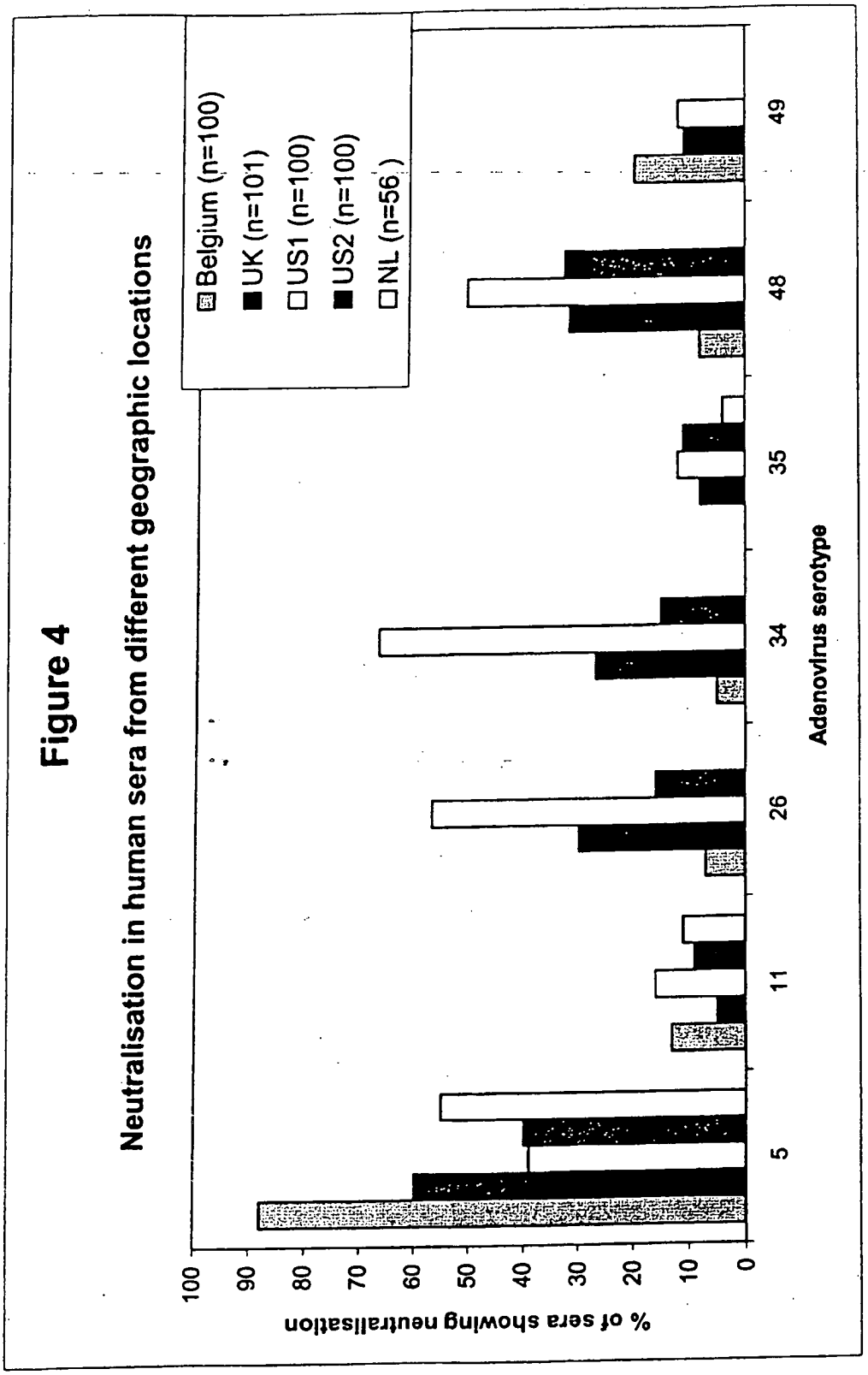


Figure 4
Neutralisation in human sera from different geographic locations
Belgium (n=100)
UK (n=101)
US1 (n=100)
US2 (n=100)
NL (n=56)
% of sera showing neutralisation
0
10
20
30
40
50
60
70
80
90
100
5
11
26
34
35
48
49
Adenovirus serotype

Figure 5

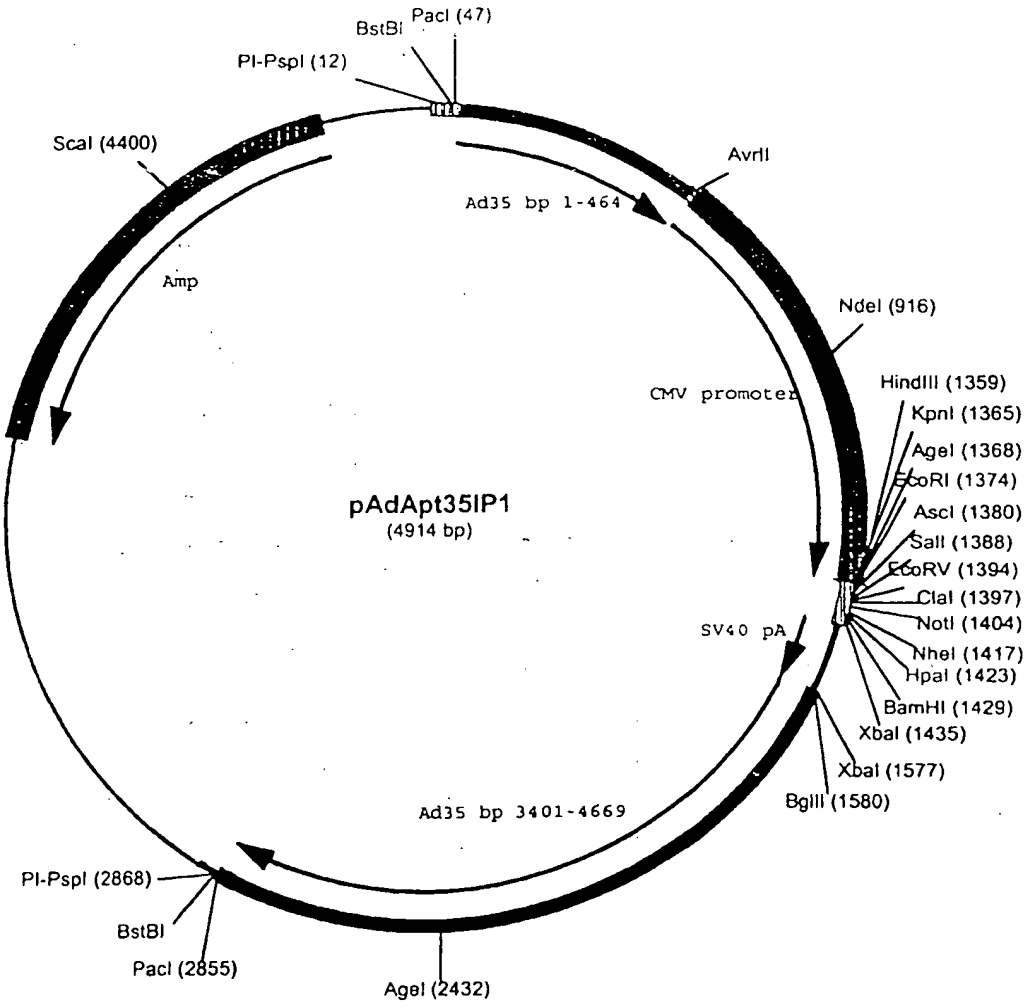

BstBI
PacI (47)
PI-PspI (12)
ScaI (4400)
AvrII
Ad35 bp 1-464
Amp
NdeI (916)
CMV promoter
HindIII (1359)
KpnI (1365)
AgeI (1368)
EcoRI (1374)
AscI (1380)
SalI (1388)
EcoRV (1394)
ClaI (1397)
NotI (1404)
NheI (1417)
HpaI (1423)
BamHI (1429)
XbaI (1435)
XbaI (1577)
BglII (1580)
pAdApt35IP1
(4914 bp)
SV40 pA
Ad35 bp 3401-4669
PI-PspI (2868)
BstBI
PacI (2855)
AgeI (2432)

Figure 6

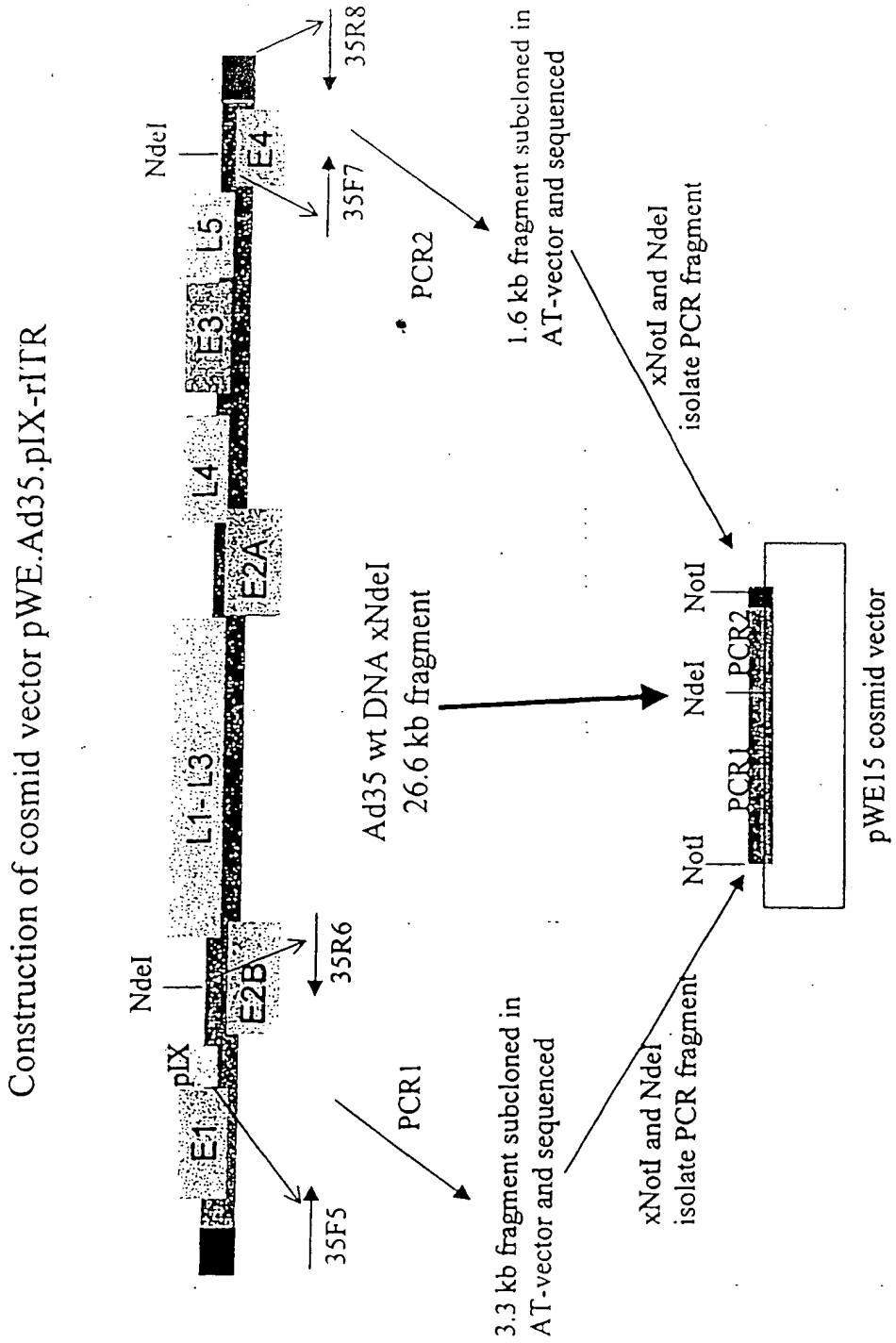

Construction of cosmid vector pWE.Ad35.pIX-rITR
NdeI
pIX
E1
E2B
L1- L3
E2A
L4
E3
L5
E4
NdeI
35R8
35F7
35R6
35F5
PCR1
PCR2
3.3 kb fragment subcloned in AT-vector and sequenced
1.6 kb fragment subcloned in AT-vector and sequenced
Ad35 wt DNA xNdeI 26.6 kb fragment
xNotI and NdeI isolate PCR fragment
xNotI and NdeI isolate PCR fragment
NotI
NdeI
NotI
PCR1
PCR2
pWE15 cosmid vector

Figure 7

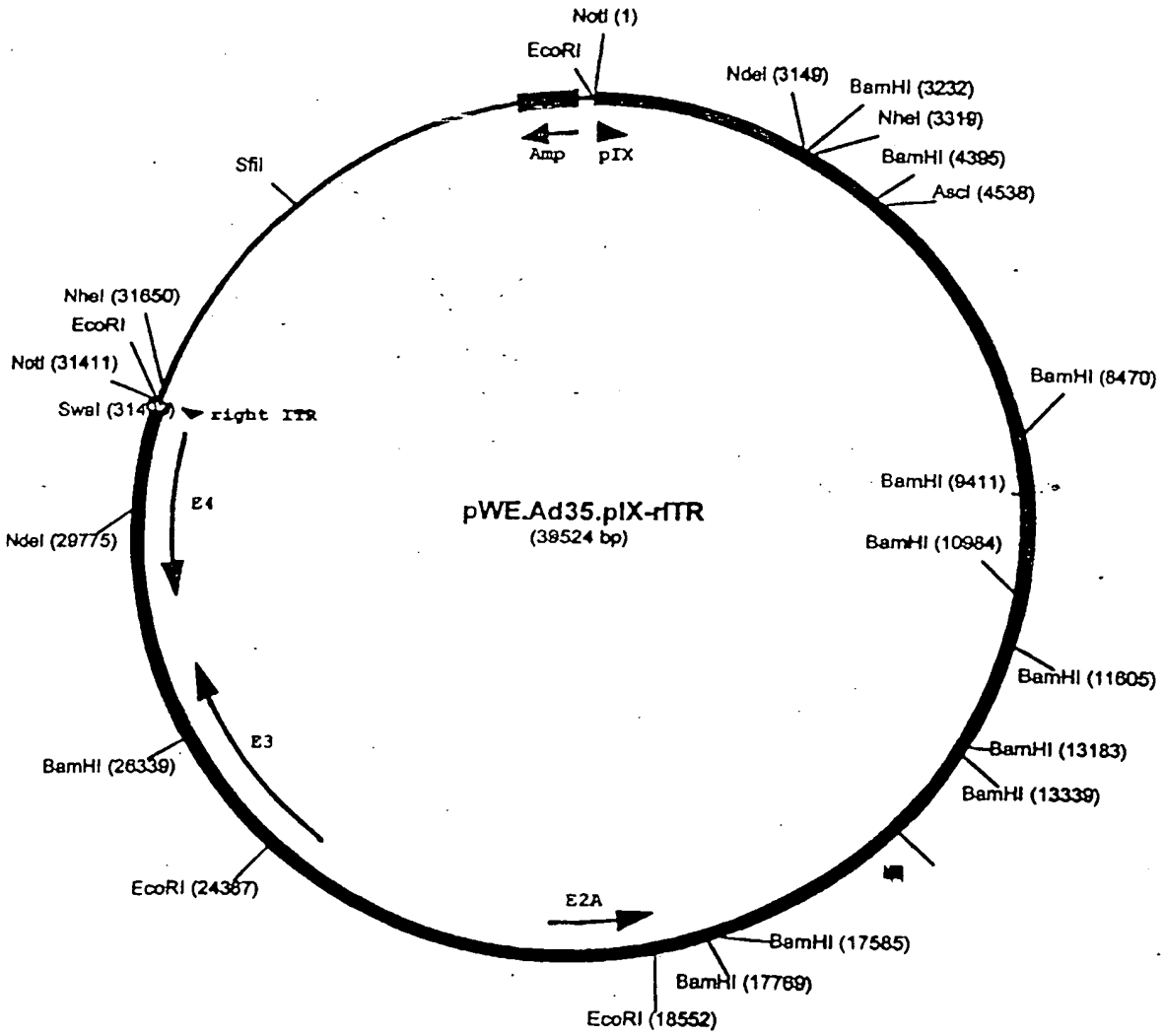

NotI (1)
EcoRI
NdeI (3149)
BamHI (3232)
NheI (3319)
BamHI (4395)
AscI (4538)
Amp
pIX
SfiI
NheI (31650)
EcoRI
NotI (31411)
SwaI (31407)
right ITR
BamHI (8470)
BamHI (9411)
E4
NdeI (29775)
pWE.Ad35.pIX-rITR
(38524 bp)
BamHI (10984)
BamHI (11605)
BamHI (13183)
BamHI (13339)
E3
BamHI (26339)
EcoRI (24387)
E2A
BamHI (17585)
BamHI (17769)
EcoRI (18552)

Figure 8

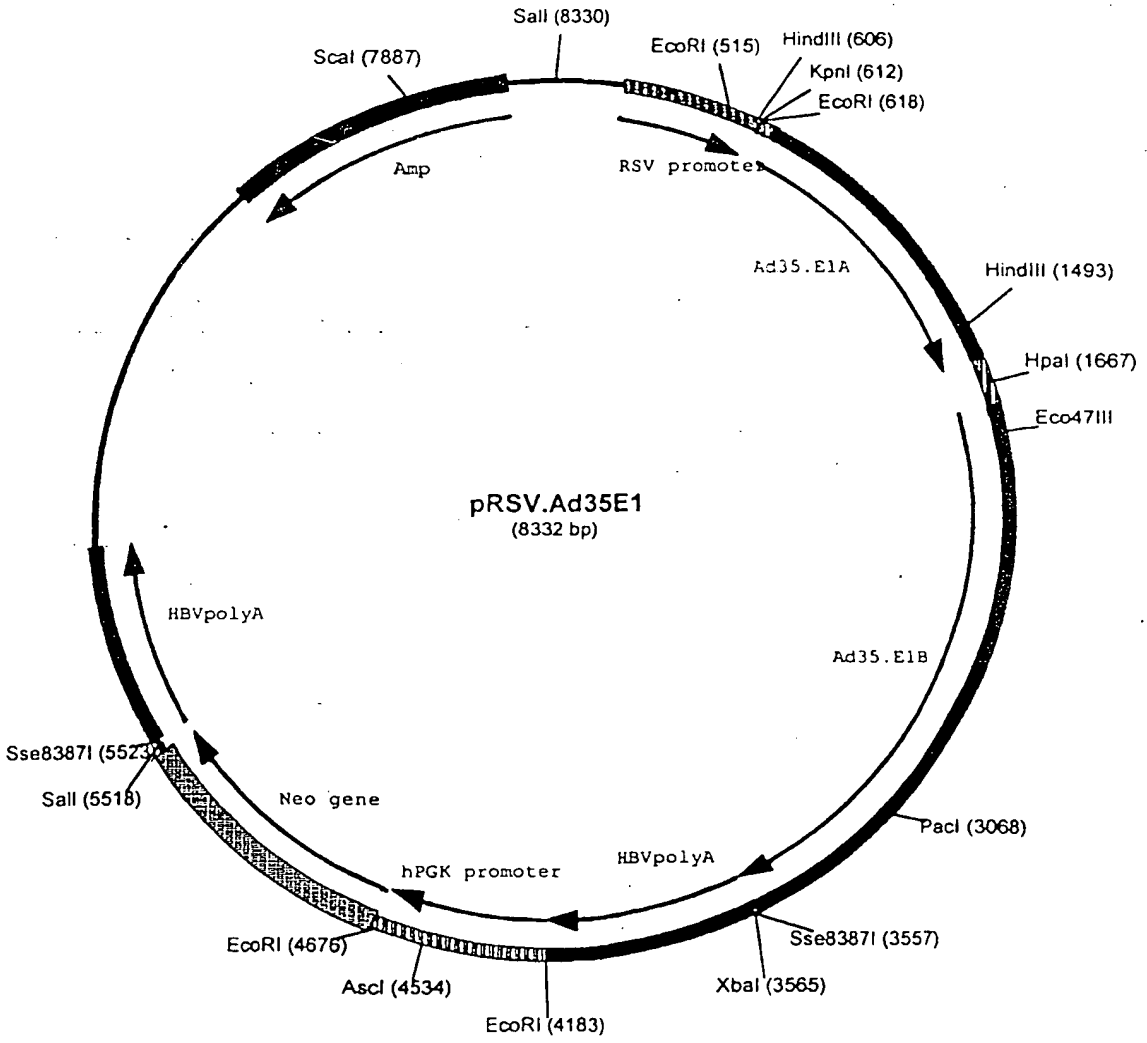

SalI (8330)
EcoRI (515)
HindIII (606)
KpnI (612)
EcoRI (618)
ScaI (7887)
Amp
RSV promoter
Ad35.E1A
HindIII (1493)
HpaI (1667)
Eco47III
pRSV.Ad35E1
(8332 bp)
HBVpolyA
Ad35.E1B
Sse8387I (5523)
SalI (5518)
Neo gene
PacI (3068)
hPGK promoter
HBVpolyA
Sse8387I (3557)
EcoRI (4676)
AscI (4534)
XbaI (3565)
EcoRI (4183)

Figure 9

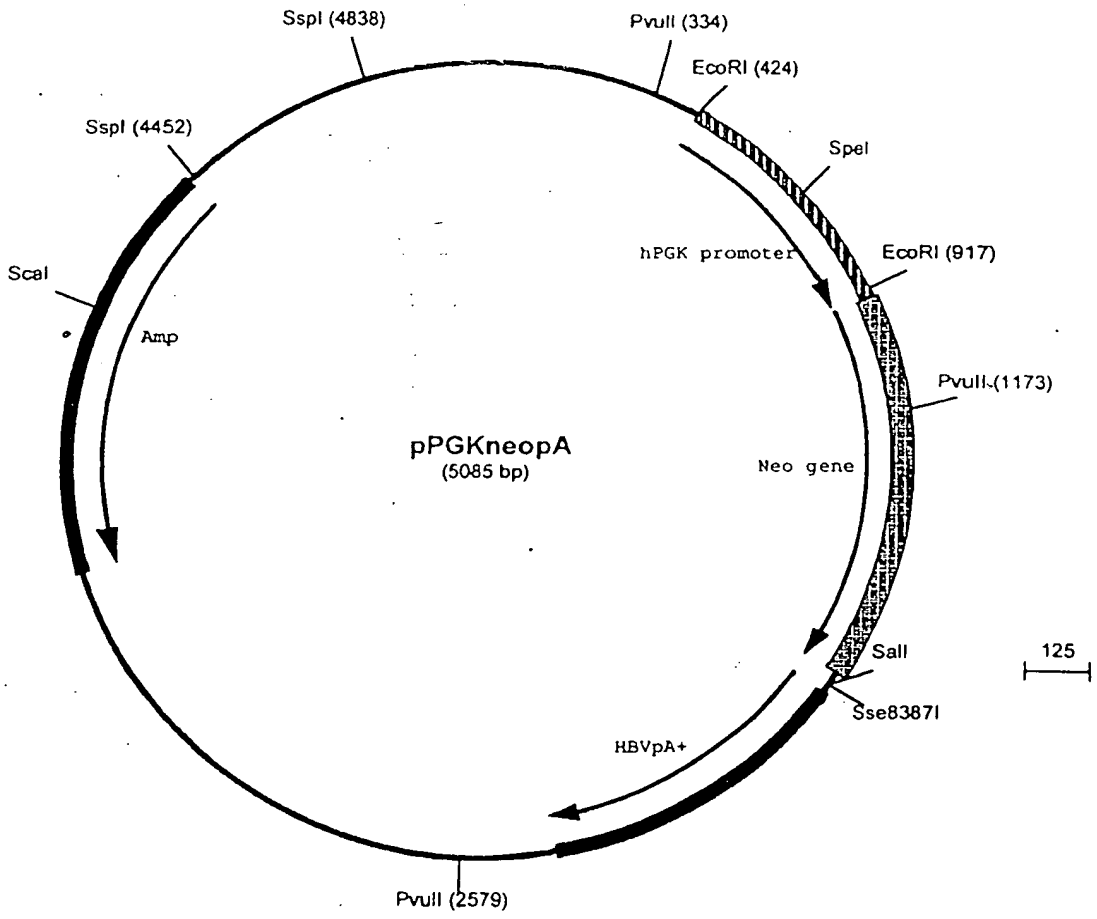

SspI (4838)
PvuII (334)
EcoRI (424)
SspI (4452)
SpeI
hPGK promoter
EcoRI (917)
ScaI
Amp
PvuII (1173)
pPGKneopA
(5085 bp)
Neo gene
SalI
125
Sse8387I
HBVpA+
PvuII (2579)

Figure 10

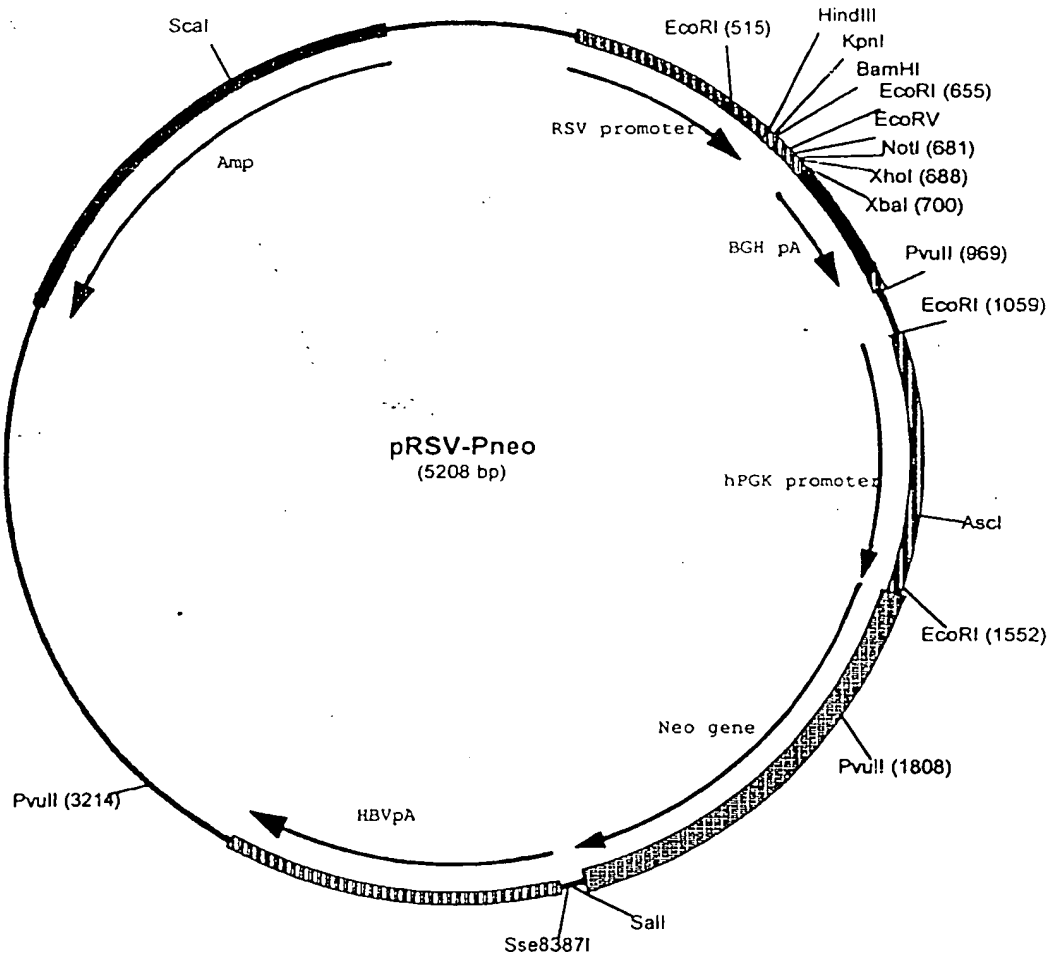

ScaI
EcoRI (515)
HindIII
KpnI
BamHI
EcoRI (655)
EcoRV
NotI (681)
XhoI (688)
XbaI (700)
RSV promoter
Amp
BGH pA
PvuII (969)
EcoRI (1059)
pRSV-Pneo
(5208 bp)
hPGK promoter
AscI
EcoRI (1552)
Neo gene
PvuII (1808)
PvuII (3214)
HBVpA
SalI
Sse8387I

Figure 11

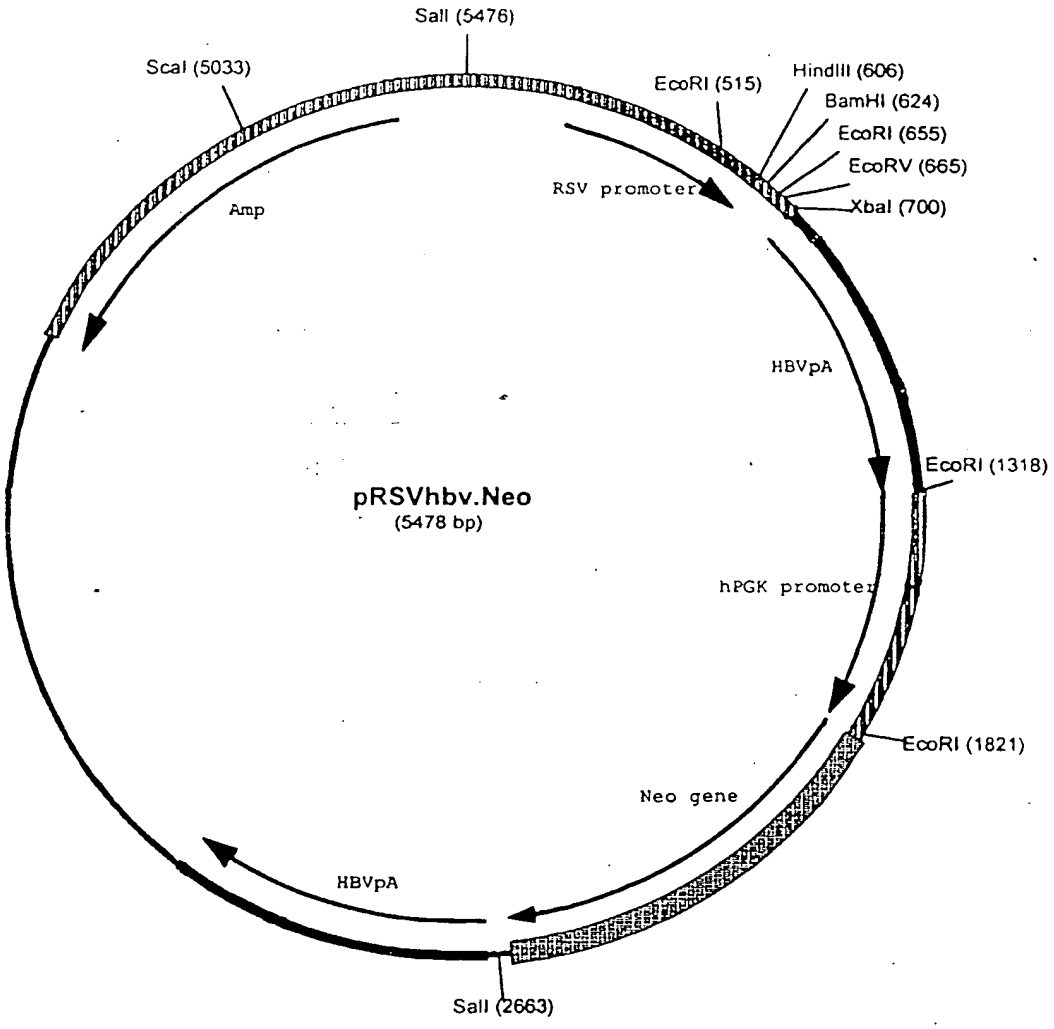

SalI (5476)
ScaI (5033)
EcoRI (515)
HindIII (606)
BamHI (624)
EcoRI (655)
EcoRV (665)
XbaI (700)
RSV promoter
Amp
HBVpA
EcoRI (1318)
pRSVhbv.Neo
(5478 bp)
hPGK promoter
EcoRI (1821)
Neo gene
HBVpA
SalI (2663)

Figure 12

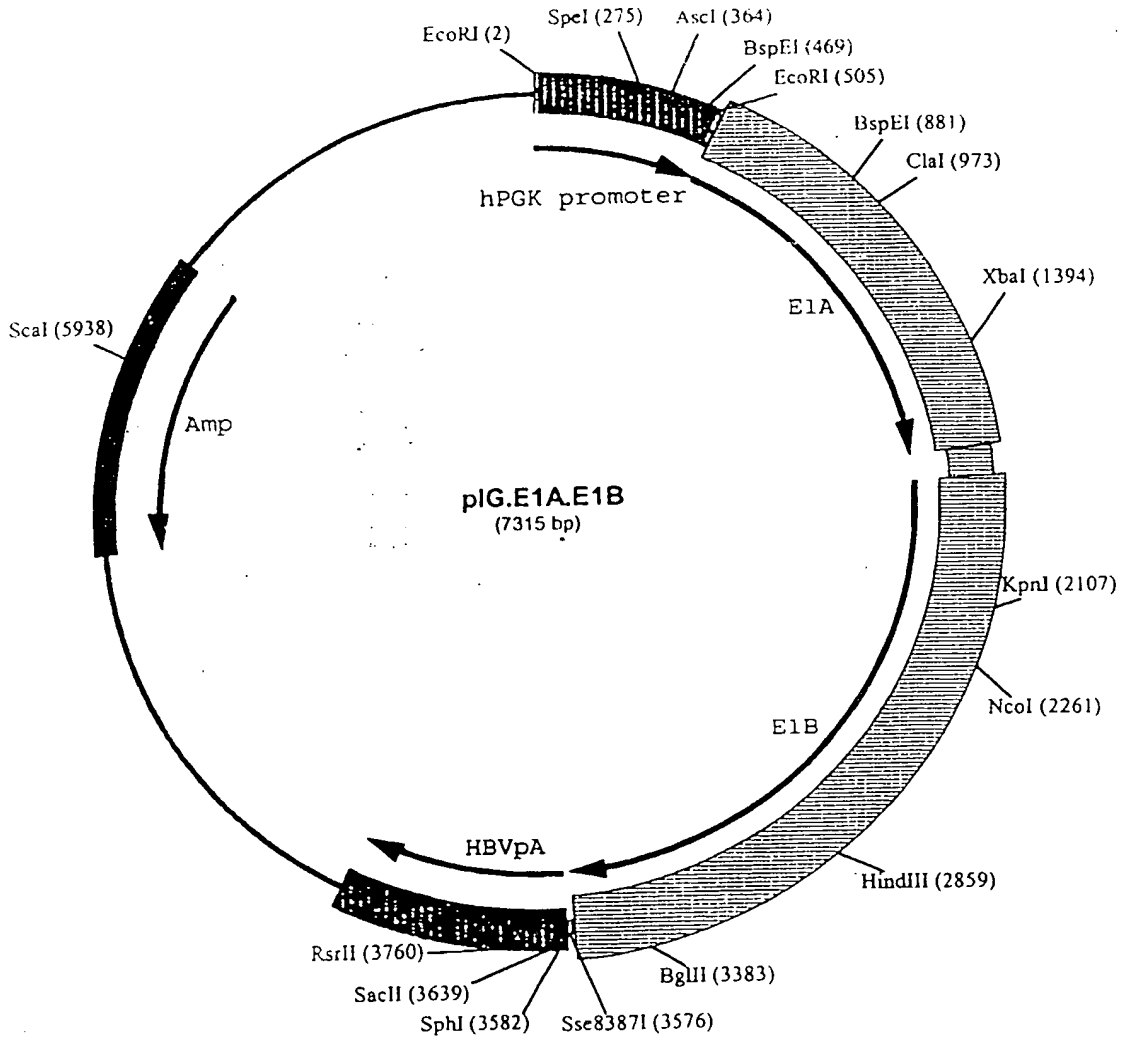

EcoRI (2)
SpeI (275)
AscI (364)
BspEI (469)
EcoRI (505)
BspEI (881)
ClaI (973)
XbaI (1394)
KpnI (2107)
NcoI (2261)
HindIII (2859)
BglII (3383)
Sse8387I (3576)
SphI (3582)
SacII (3639)
RsrII (3760)
ScaI (5938)
hPGK promoter
E1A
E1B
HBVpA
Amp
pIG.E1A.E1B
(7315 bp)

Figure 13

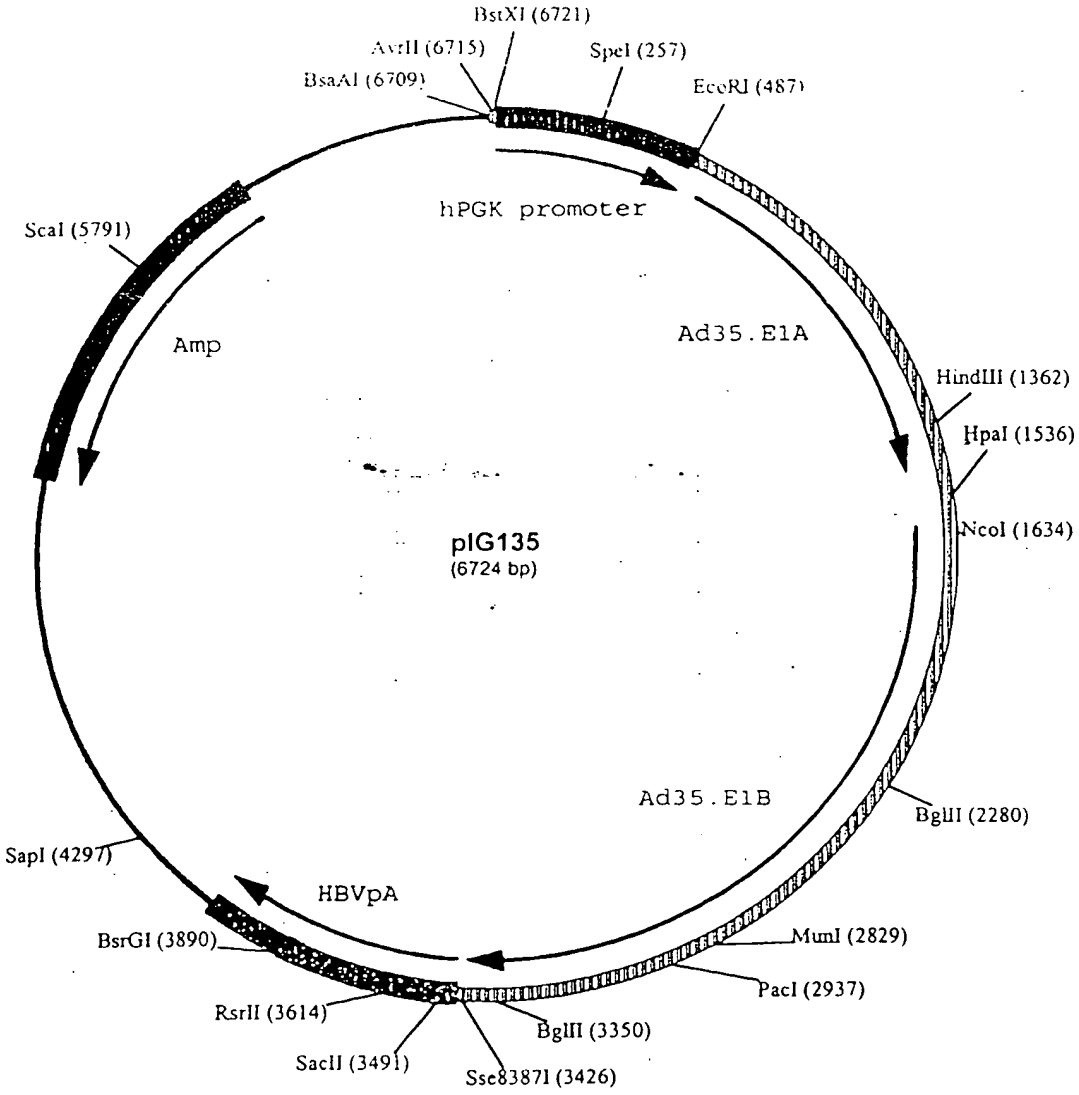

BstXI (6721)
AvrII (6715)
SpeI (257)
BsaAI (6709)
EcoRI (487)
hPGK promoter
ScaI (5791)
Amp
Ad35.E1A
HindIII (1362)
HpaI (1536)
NcoI (1634)
pIG135
(6724 bp)
Ad35.E1B
BglII (2280)
SapI (4297)
HBVpA
BsrGI (3890)
MunI (2829)
PacI (2937)
RsrII (3614)
BglII (3350)
SacII (3491)
Sse8387I (3426)

Figure 14

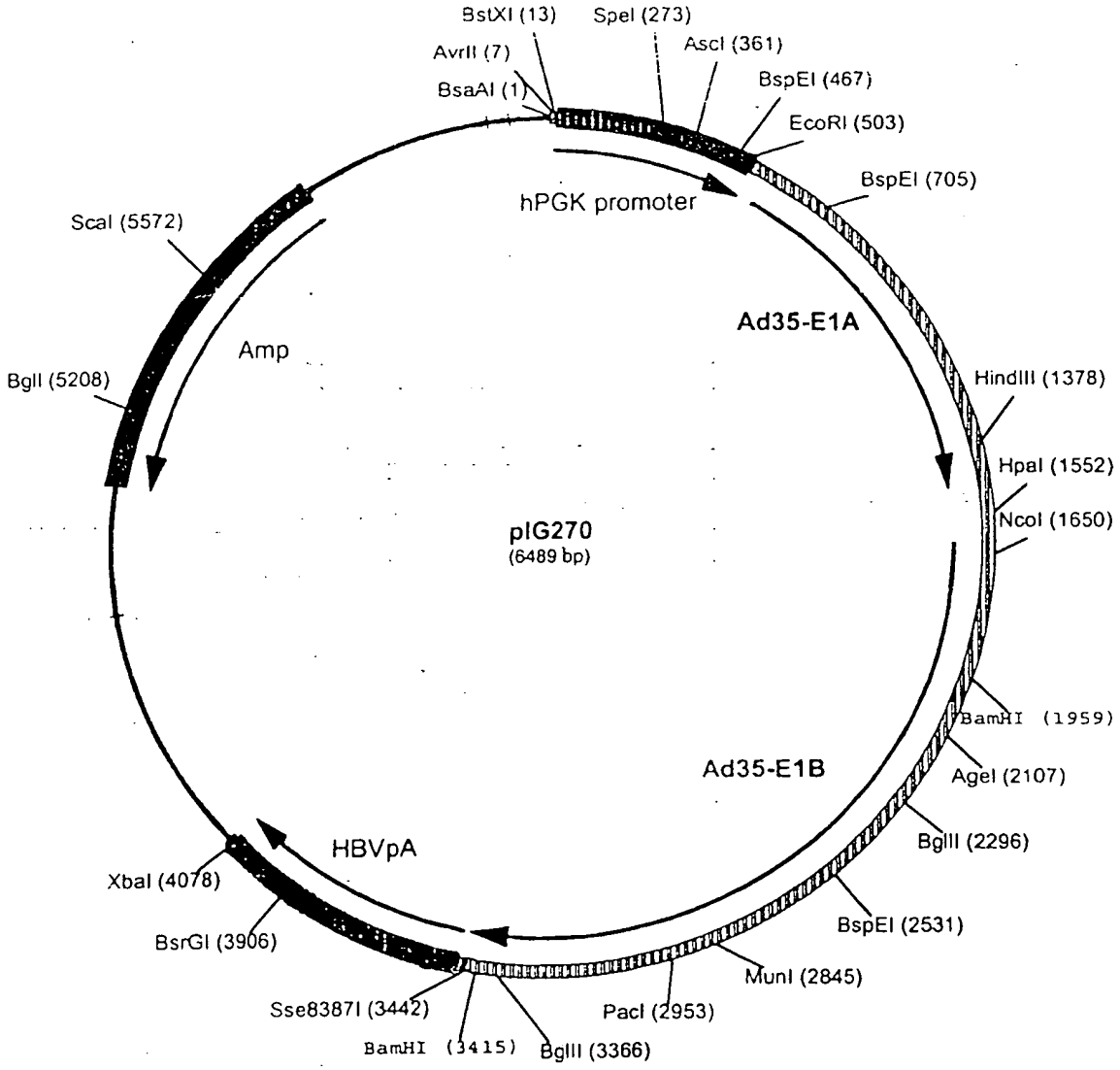

BstXI (13)
SpeI (273)
AscI (361)
AvrII (7)
BsaAI (1)
BspEI (467)
EcoRI (503)
BspEI (705)
hPGK promoter
ScaI (5572)
Ad35-E1A
Amp
BglI (5208)
HindIII (1378)
HpaI (1552)
pIG270
(6489 bp)
NcoI (1650)
BamHI (1959)
Ad35-E1B
AgeI (2107)
BglII (2296)
HBVpA
XbaI (4078)
BsrGI (3906)
BspEI (2531)
MunI (2845)
Sse8387I (3442)
PacI (2953)
BamHI (3415)
BglII (3366)

Figure 15

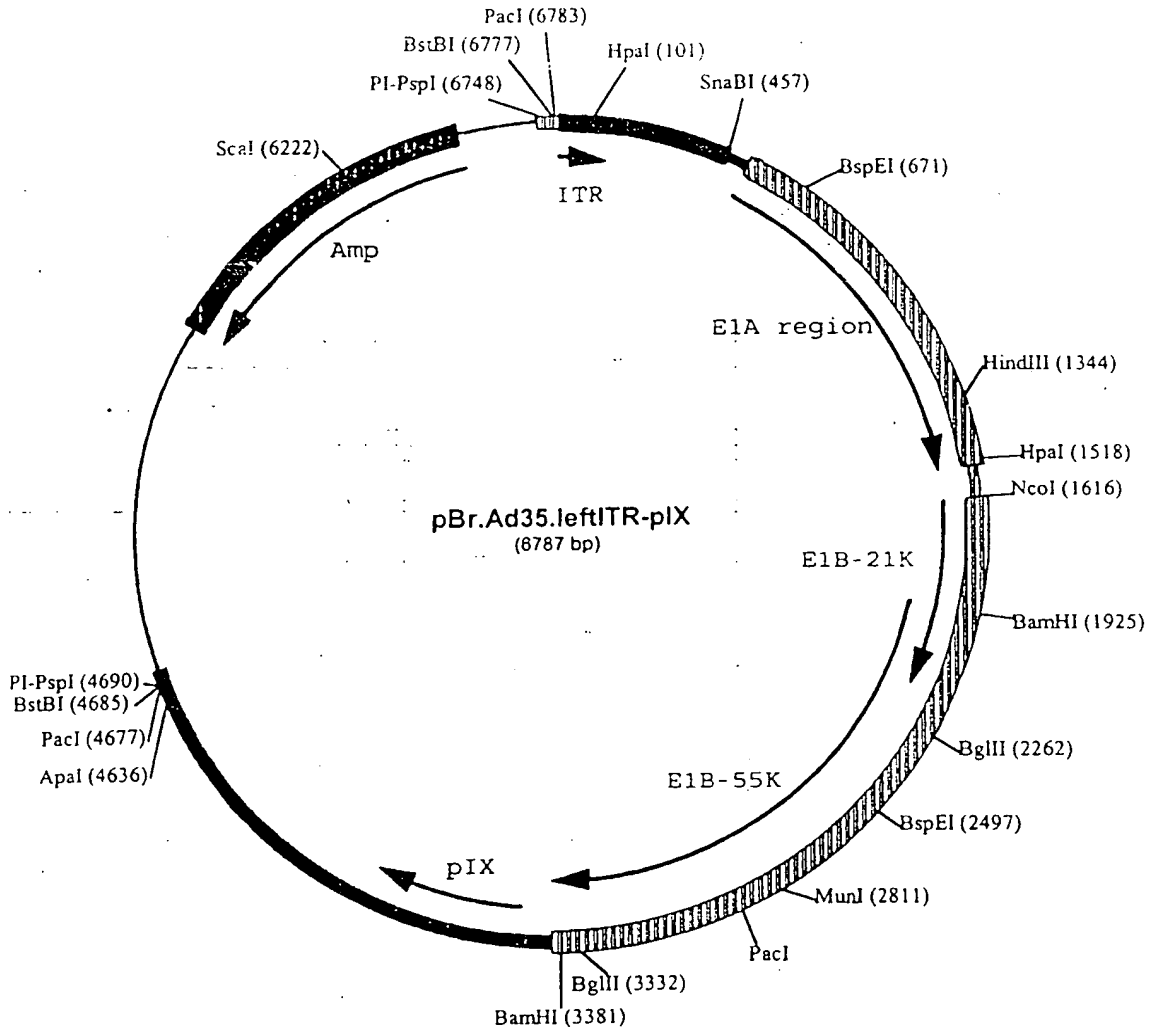

PacI (6783)
BstBI (6777)
HpaI (101)
PI-PspI (6748)
SnaBI (457)
ScaI (6222)
BspEI (671)
ITR
Amp
E1A region
HindIII (1344)
HpaI (1518)
NcoI (1616)
pBr.Ad35.leftITR-pIX
(6787 bp)
E1B-21K
BamHI (1925)
PI-PspI (4690)
BstBI (4685)
PacI (4677)
ApaI (4636)
BglII (2262)
E1B-55K
BspEI (2497)
pIX
MunI (2811)
PacI
BglII (3332)
BamHI (3381)

Figure 16

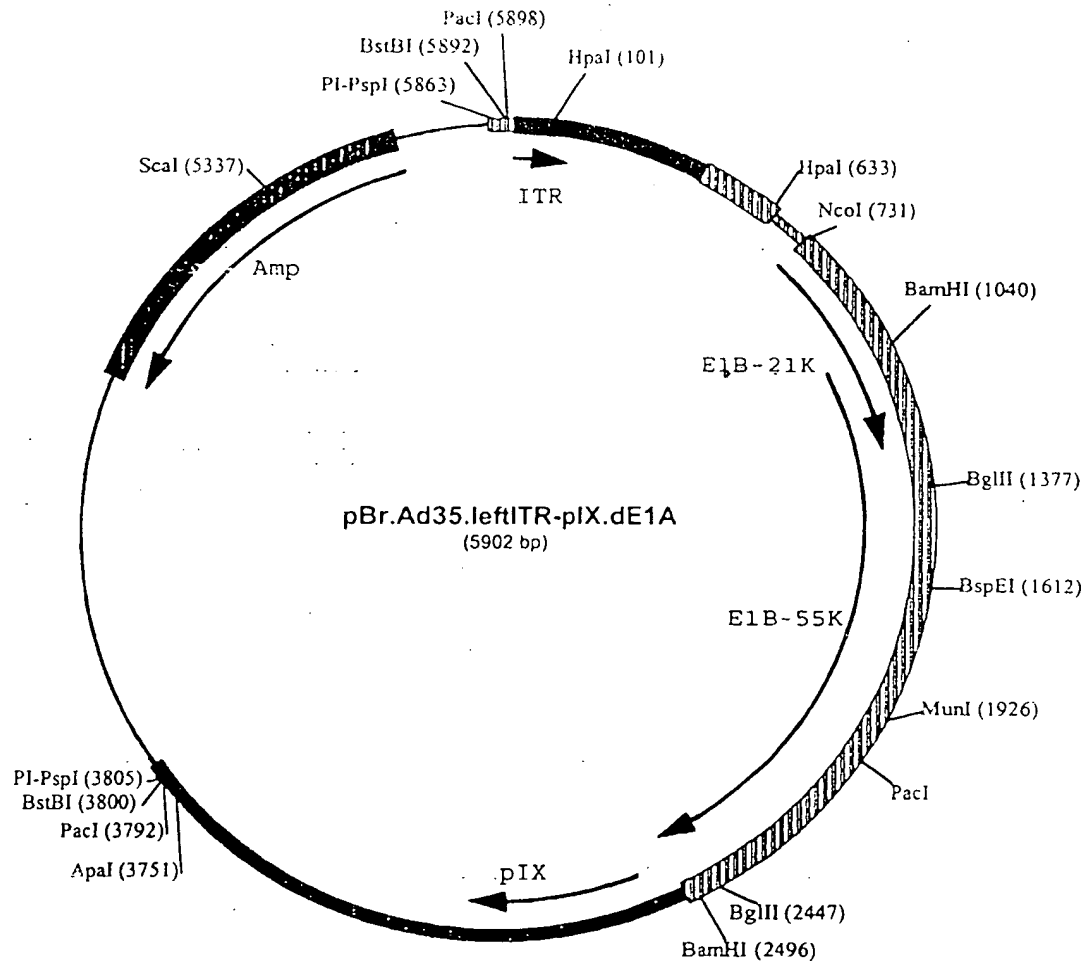

PacI (5898)
BstBI (5892)
PI-PspI (5863)
HpaI (101)
ScaI (5337)
ITR
HpaI (633)
NcoI (731)
Amp
BamHI (1040)
E1B-21K
BglII (1377)
pBr.Ad35.leftITR-pIX.dE1A
(5902 bp)
BspEI (1612)
E1B-55K
MunI (1926)
PacI
PI-PspI (3805)
BstBI (3800)
PacI (3792)
ApaI (3751)
pIX
BglII (2447)
BamHI (2496)

Figure 17

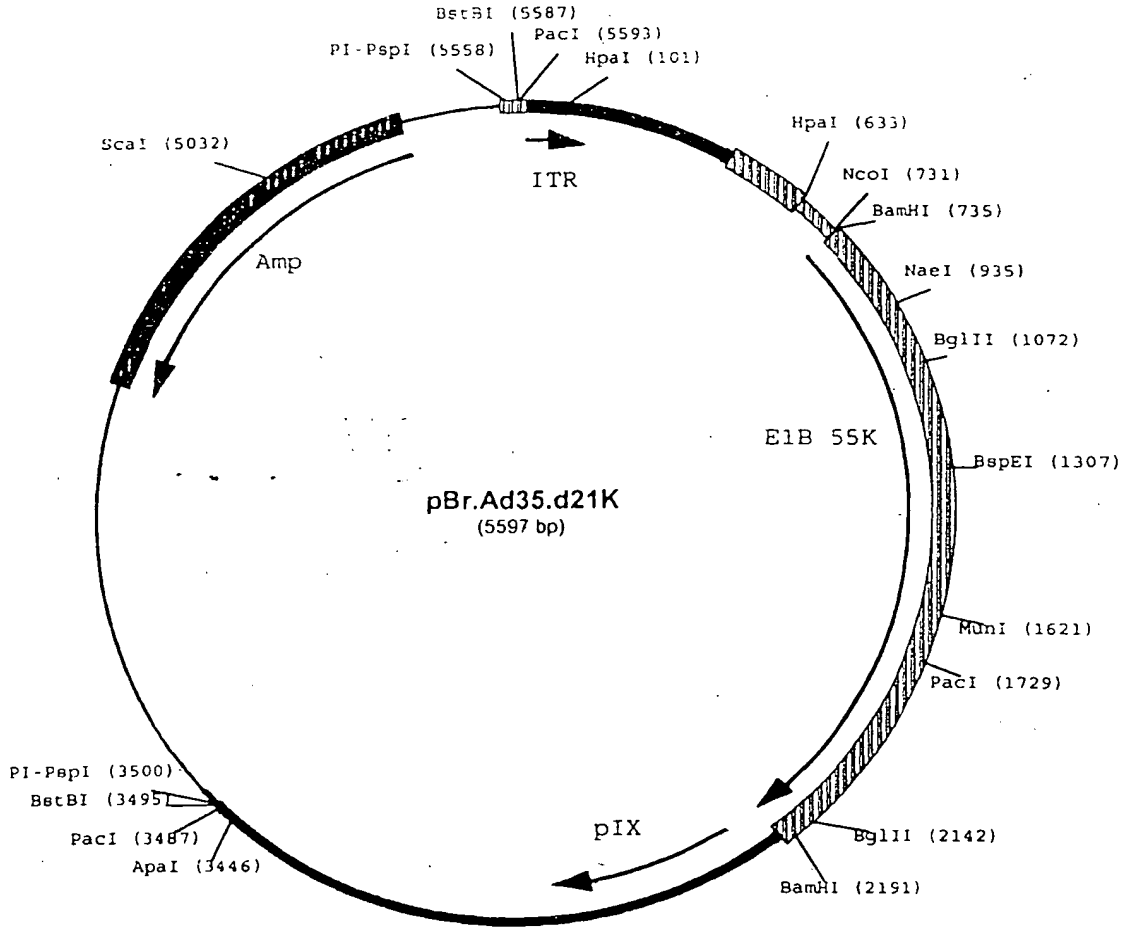

BstBI (5587)
PacI (5593)
PI-PspI (5558)
HpaI (101)
ScaI (5032)
ITR
HpaI (633)
NcoI (731)
BamHI (735)
Amp
NaeI (935)
BglII (1072)
E1B 55K
BspEI (1307)
pBr.Ad35.d21K
(5597 bp)
MunI (1621)
PacI (1729)
PI-PspI (3500)
BstBI (3495)
PacI (3487)
ApaI (3446)
pIX
BglII (2142)
BamHI (2191)

Figure 18

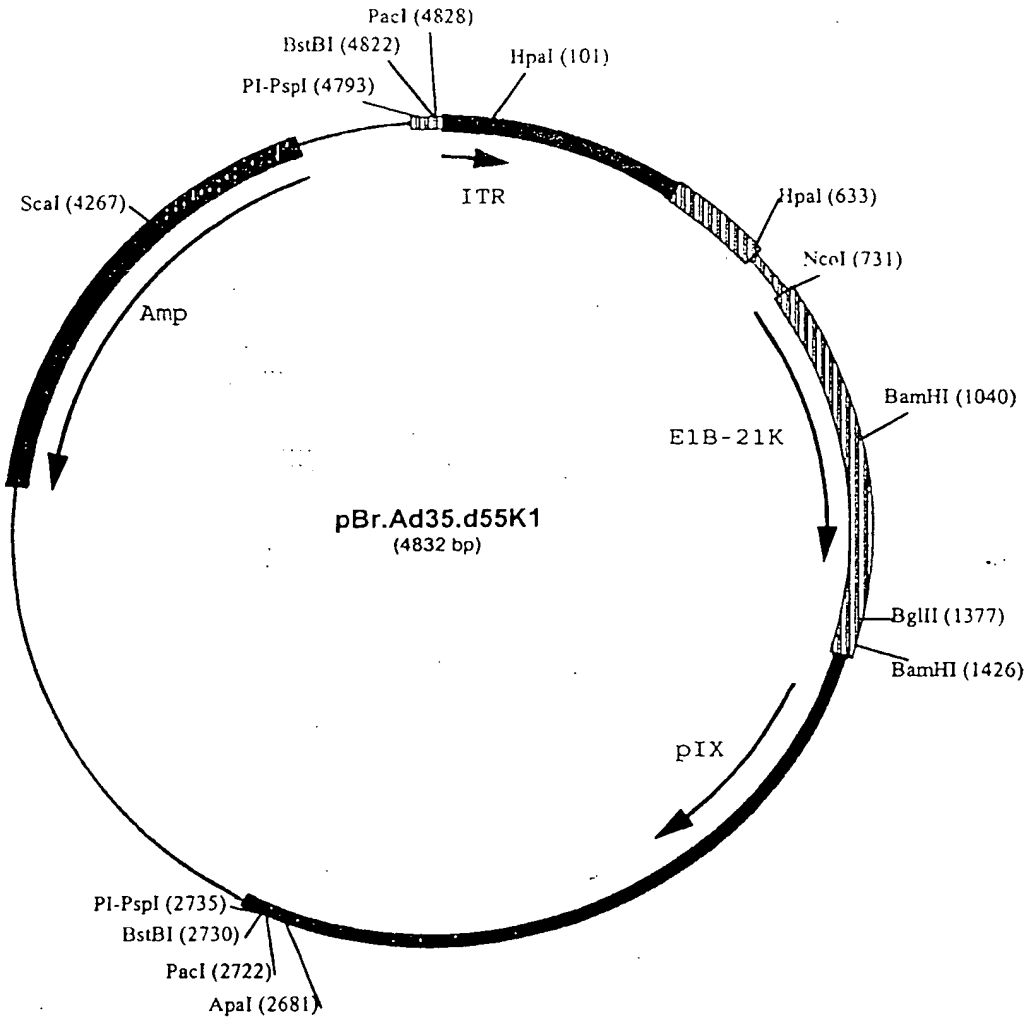

PacI (4828)
BstBI (4822)
PI-PspI (4793)
HpaI (101)
ScaI (4267)
ITR
HpaI (633)
NcoI (731)
Amp
BamHI (1040)
E1B-21K
pBr.Ad35.d55K1
(4832 bp)
BglII (1377)
BamHI (1426)
pIX
PI-PspI (2735)
BstBI (2730)
PacI (2722)
ApaI (2681)

Figure 19

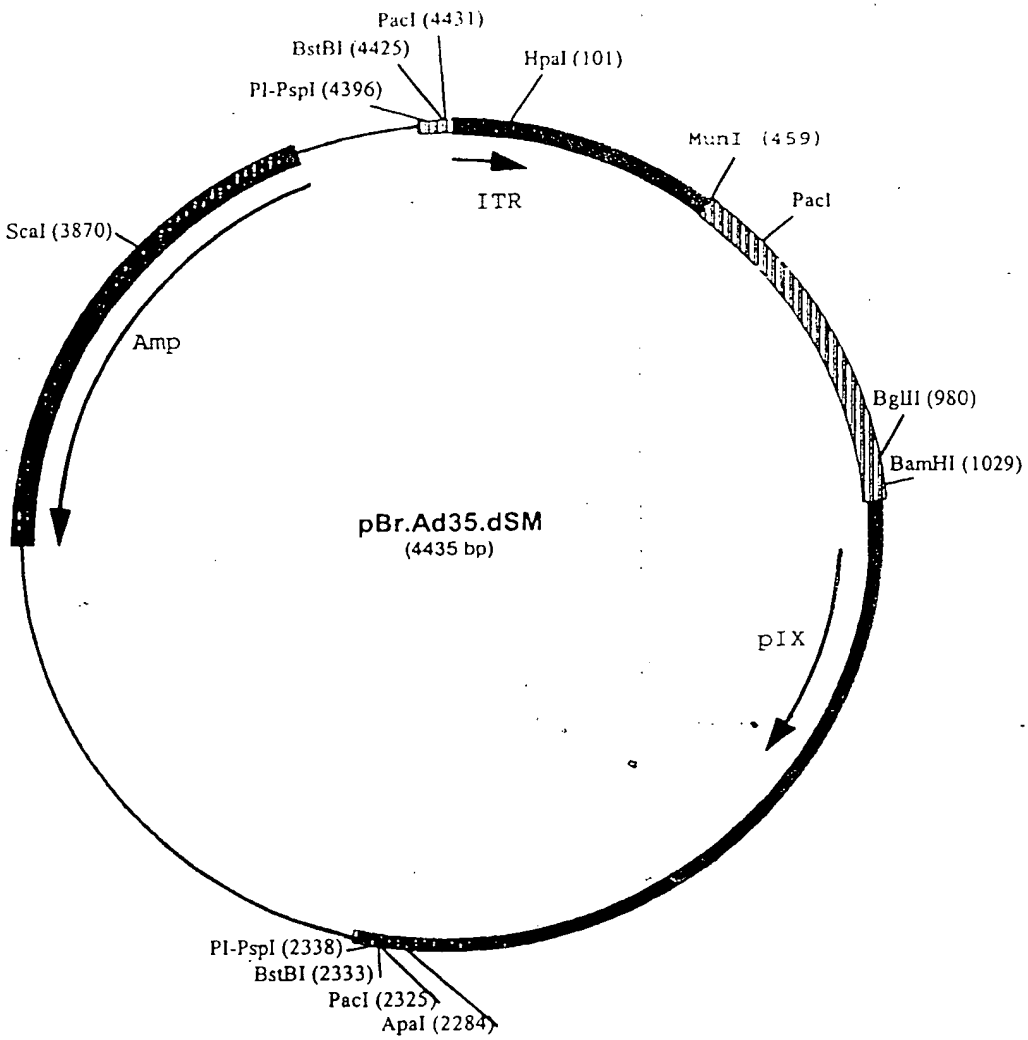

PacI (4431)
BstBI (4425)
HpaI (101)
PI-PspI (4396)
MunI (459)
ITR
PacI
ScaI (3870)
Amp
BglII (980)
BamHI (1029)
pBr.Ad35.dSM
(4435 bp)
pIX
PI-PspI (2338)
BstBI (2333)
PacI (2325)
ApaI (2284)

Figure 20

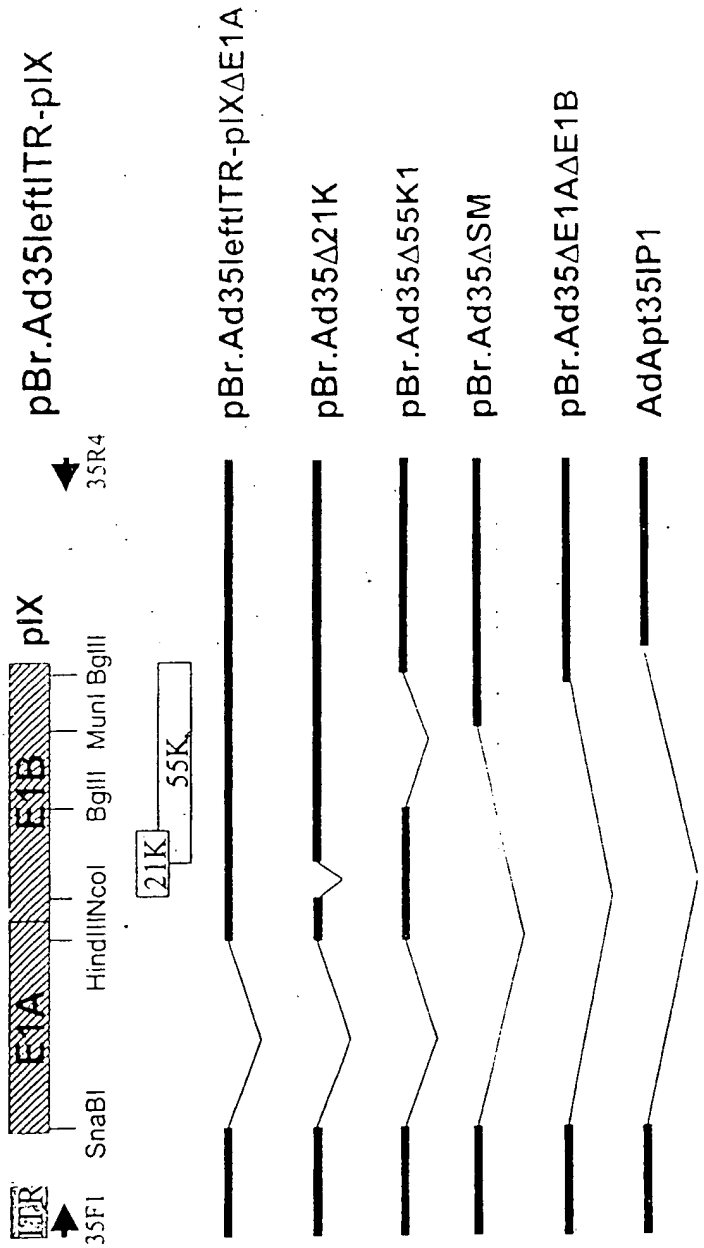

pBr.Ad35leftITR-pIX
35R4
pIX
E1A
E1B
SnaBI
HindIIINcoI
BglII
MunI BglII
21K
55K
35F1
pBr.Ad35leftITR-pIXΔE1A
pBr.Ad35Δ21K
pBr.Ad35Δ55K1
pBr.Ad35ΔSM
pBr.Ad35ΔE1AΔE1B
AdApt35IP1

Figure 21

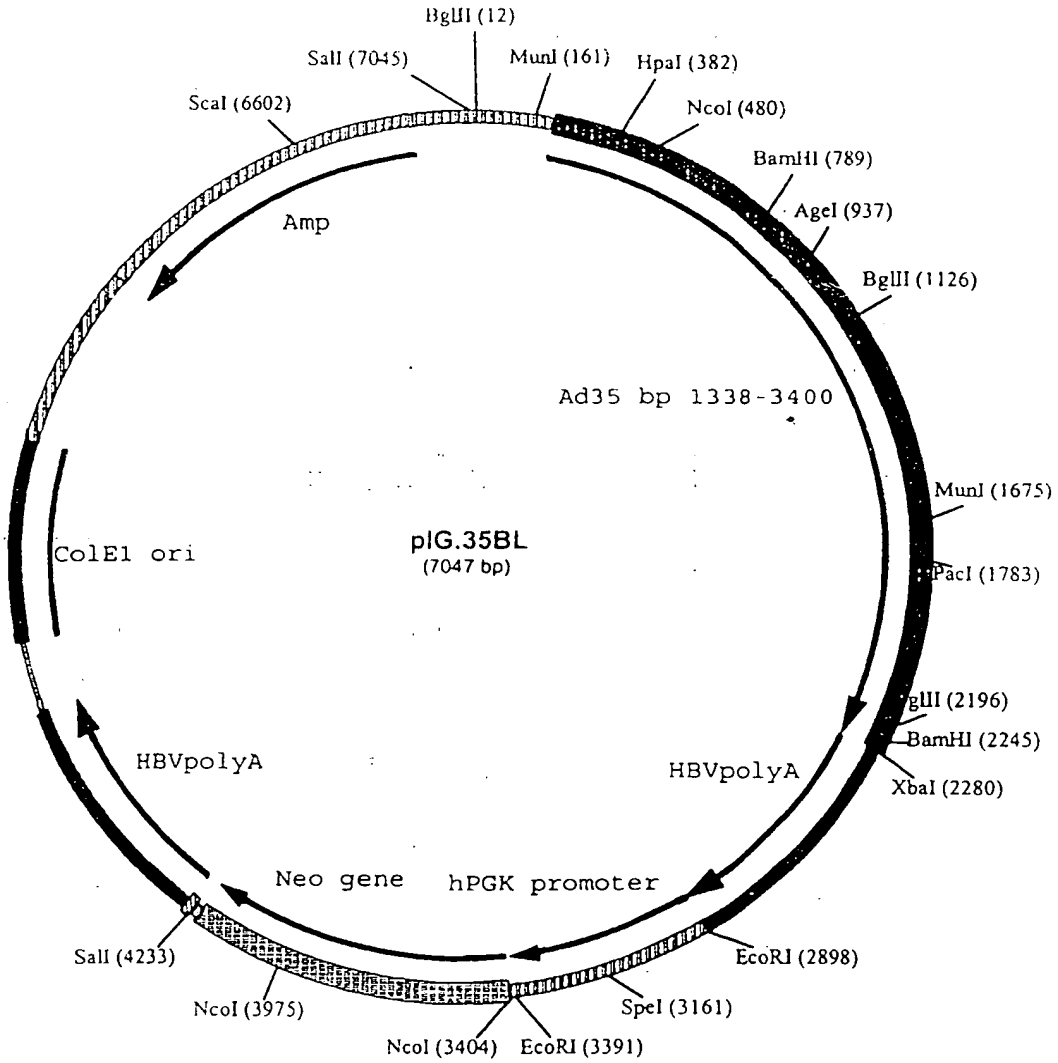

BglII (12)
SalI (7045)
MunI (161)
HpaI (382)
ScaI (6602)
NcoI (480)
BamHI (789)
AgeI (937)
Amp
BglII (1126)
Ad35 bp 1338-3400
MunI (1675)
ColE1 ori
pIG.35BL
(7047 bp)
PacI (1783)
gIII (2196)
BamHI (2245)
HBVpolyA
HBVpolyA
XbaI (2280)
Neo gene
hPGK promoter
SalI (4233)
EcoRI (2898)
NcoI (3975)
SpeI (3161)
NcoI (3404)
EcoRI (3391)

Figure 22

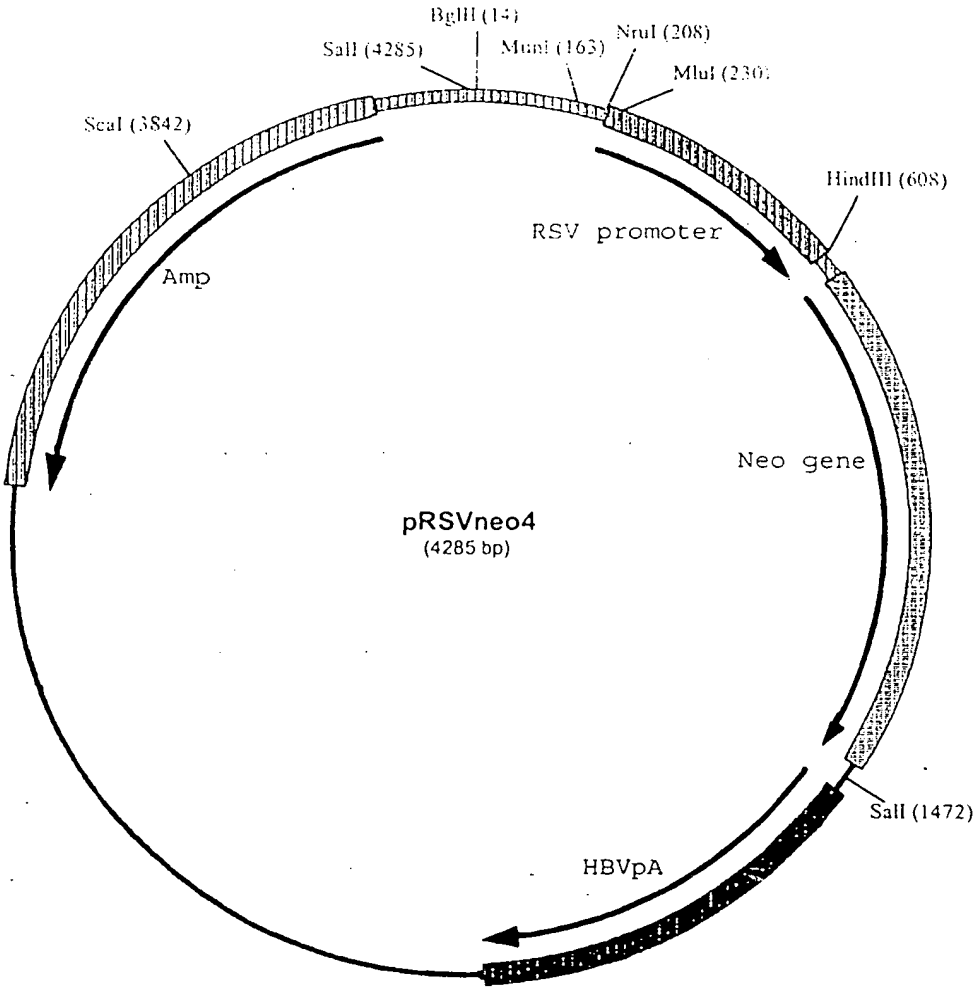

BglII (14)
SalI (4285)
MunI (163)
NruI (208)
MluI (230)
ScaI (3842)
HindIII (608)
RSV promoter
Amp
Neo gene
pRSVneo4
(4285 bp)
SalI (1472)
HBVpA

Figure 23

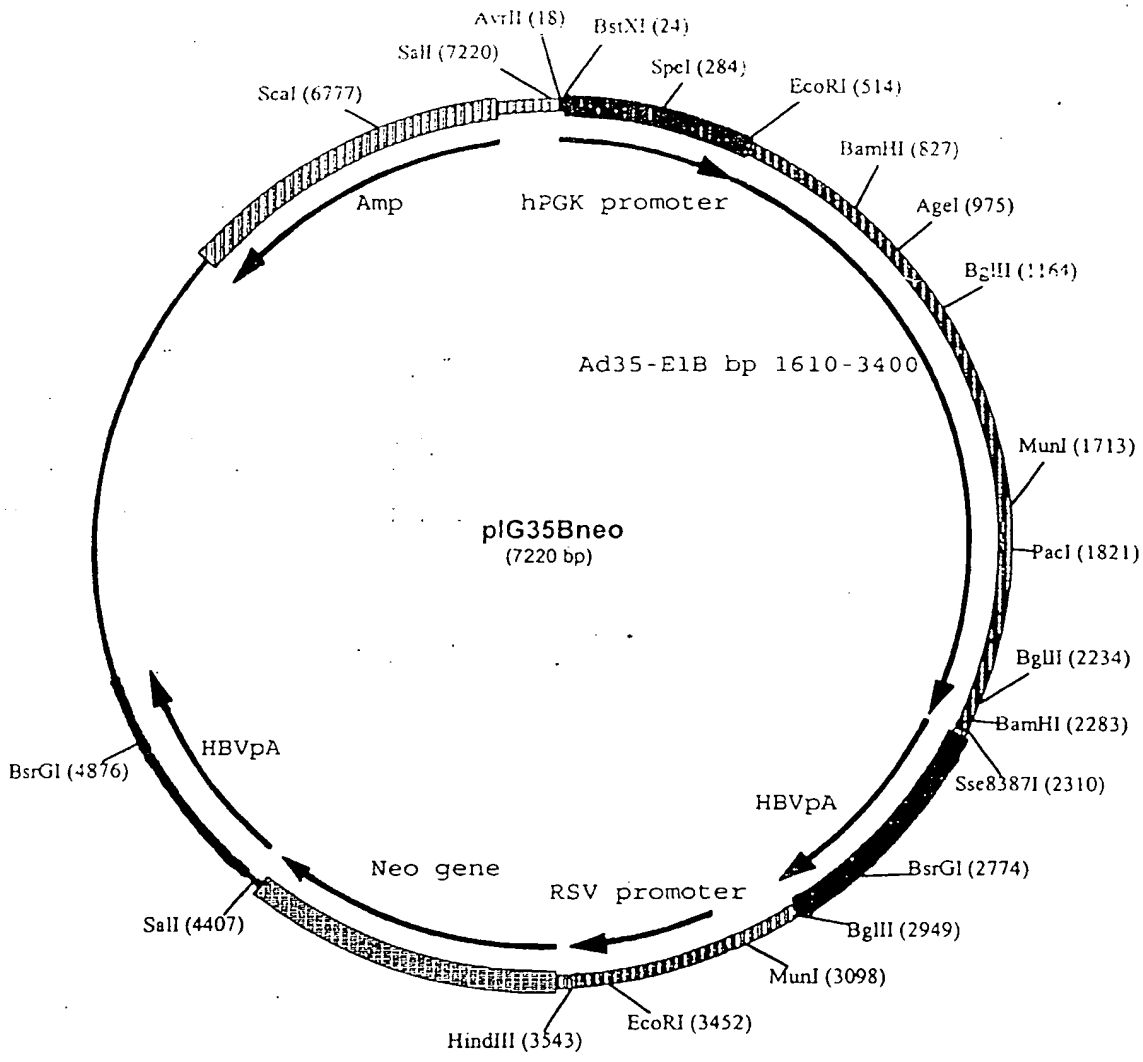

AvrII (18)
BstXI (24)
SalI (7220)
SpeI (284)
EcoRI (514)
ScaI (6777)
BamHI (827)
Amp
hPGK promoter
AgeI (975)
BglII (1164)
Ad35-E1B bp 1610-3400
MunI (1713)
pIG35Bneo
(7220 bp)
PacI (1821)
BglII (2234)
BamHI (2283)
HBVpA
BsrGI (4876)
Sse8387I (2310)
HBVpA
BsrGI (2774)
Neo gene
RSV promoter
SalI (4407)
BglII (2949)
MunI (3098)
EcoRI (3452)
HindIII (3543)

Figure 24

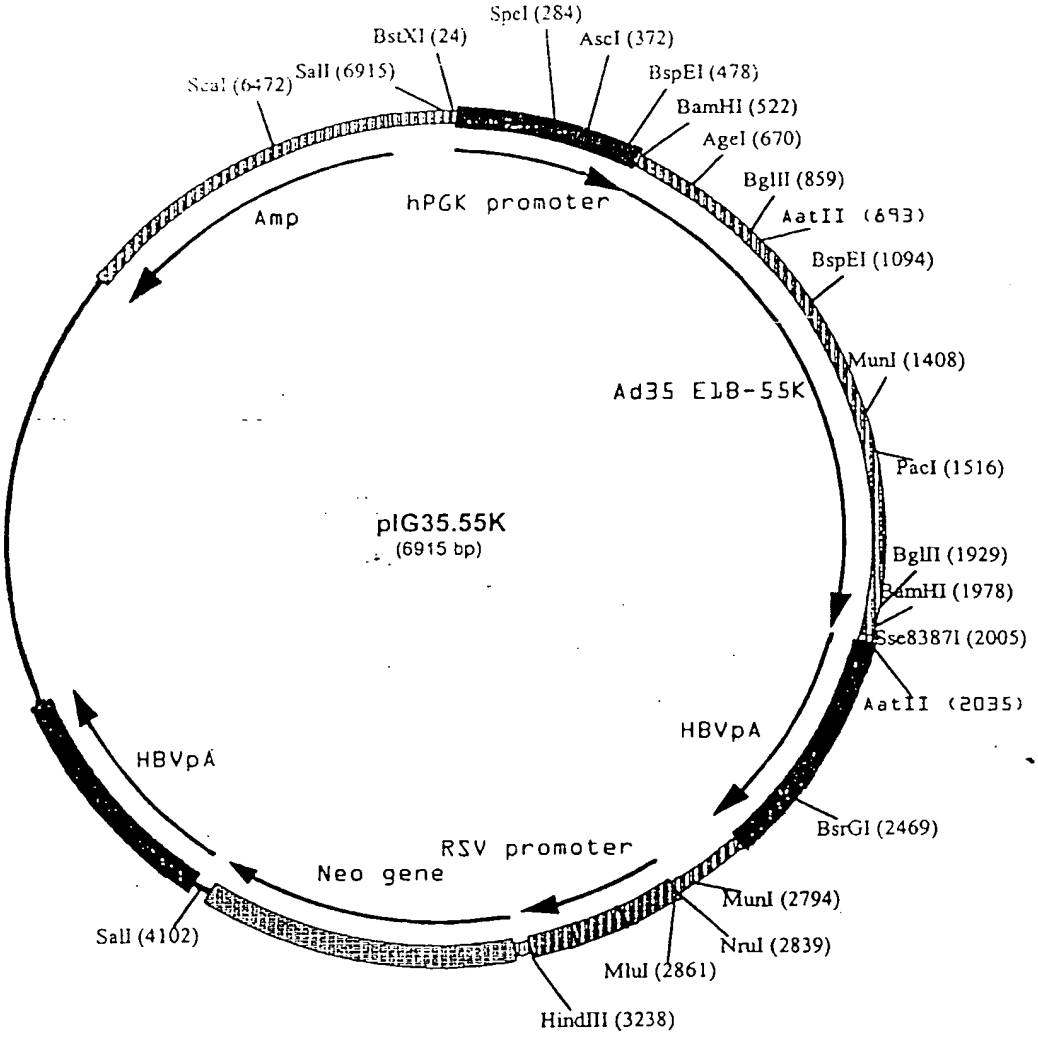

SpeI (284)
BstXI (24)
AscI (372)
SalI (6915)
ScaI (6472)
BspEI (478)
BamHI (522)
AgeI (670)
BglII (859)
AatII (693)
BspEI (1094)
MunI (1408)
Amp
hPGK promoter
Ad35 E1B-55K
PacI (1516)
pIG35.55K
(6915 bp)
BglII (1929)
BamHI (1978)
Sse8387I (2005)
AatII (2035)
HBVpA
HBVpA
BsrGI (2469)
RSV promoter
Neo gene
MunI (2794)
NruI (2839)
SalI (4102)
MluI (2861)
HindIII (3238)

Figure 25

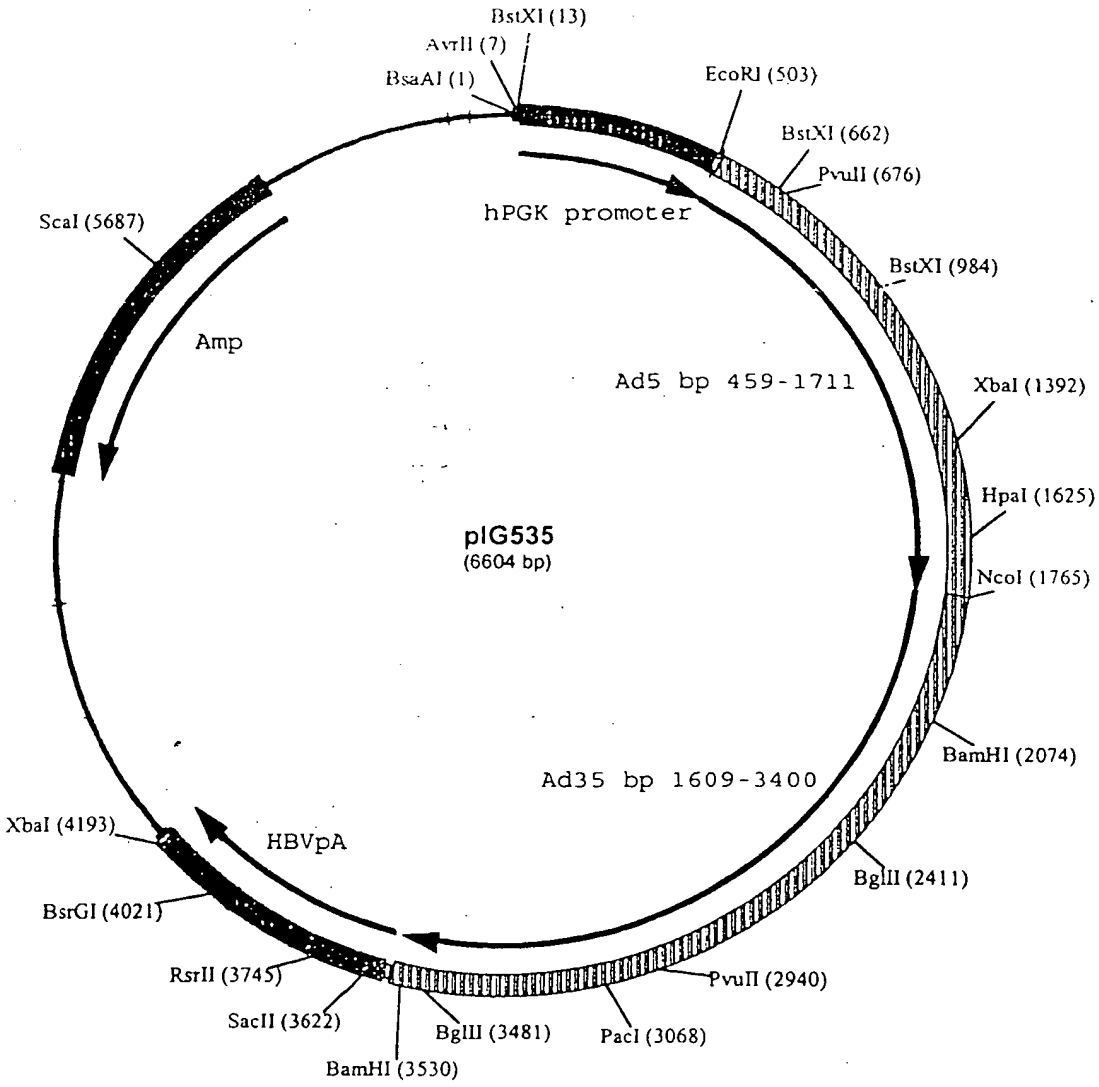

BstXI (13)
AvrII (7)
BsaAI (1)
EcoRI (503)
BstXI (662)
PvuII (676)
hPGK promoter
ScaI (5687)
BstXI (984)
Amp
Ad5 bp 459-1711
XbaI (1392)
HpaI (1625)
pIG535
(6604 bp)
NcoI (1765)
BamHI (2074)
Ad35 bp 1609-3400
XbaI (4193)
HBVpA
BglII (2411)
BsrGI (4021)
RsrII (3745)
PvuII (2940)
SacII (3622)
BglII (3481)
PacI (3068)
BamHI (3530)

Figure 26

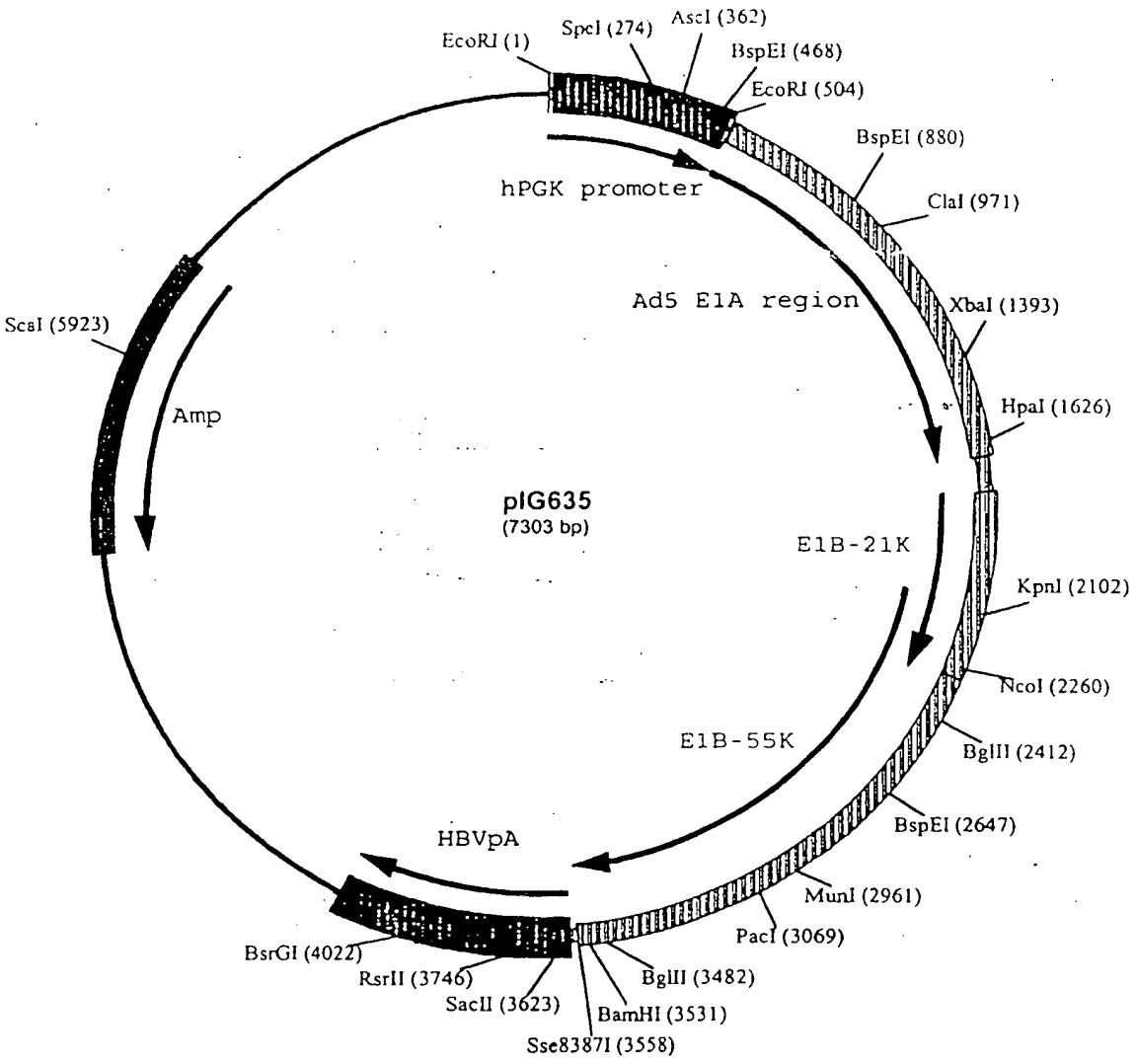

EcoRI (1)
SpeI (274)
AscI (362)
BspEI (468)
EcoRI (504)
BspEI (880)
ClaI (971)
XbaI (1393)
HpaI (1626)
KpnI (2102)
NcoI (2260)
BglII (2412)
BspEI (2647)
MunI (2961)
PacI (3069)
BglII (3482)
BamHI (3531)
Sse8387I (3558)
SacII (3623)
RsrII (3746)
BsrGI (4022)
ScaI (5923)
hPGK promoter
Ad5 E1A region
E1B-21K
E1B-55K
HBVpA
Amp
pIG635
(7303 bp)

Figure 27

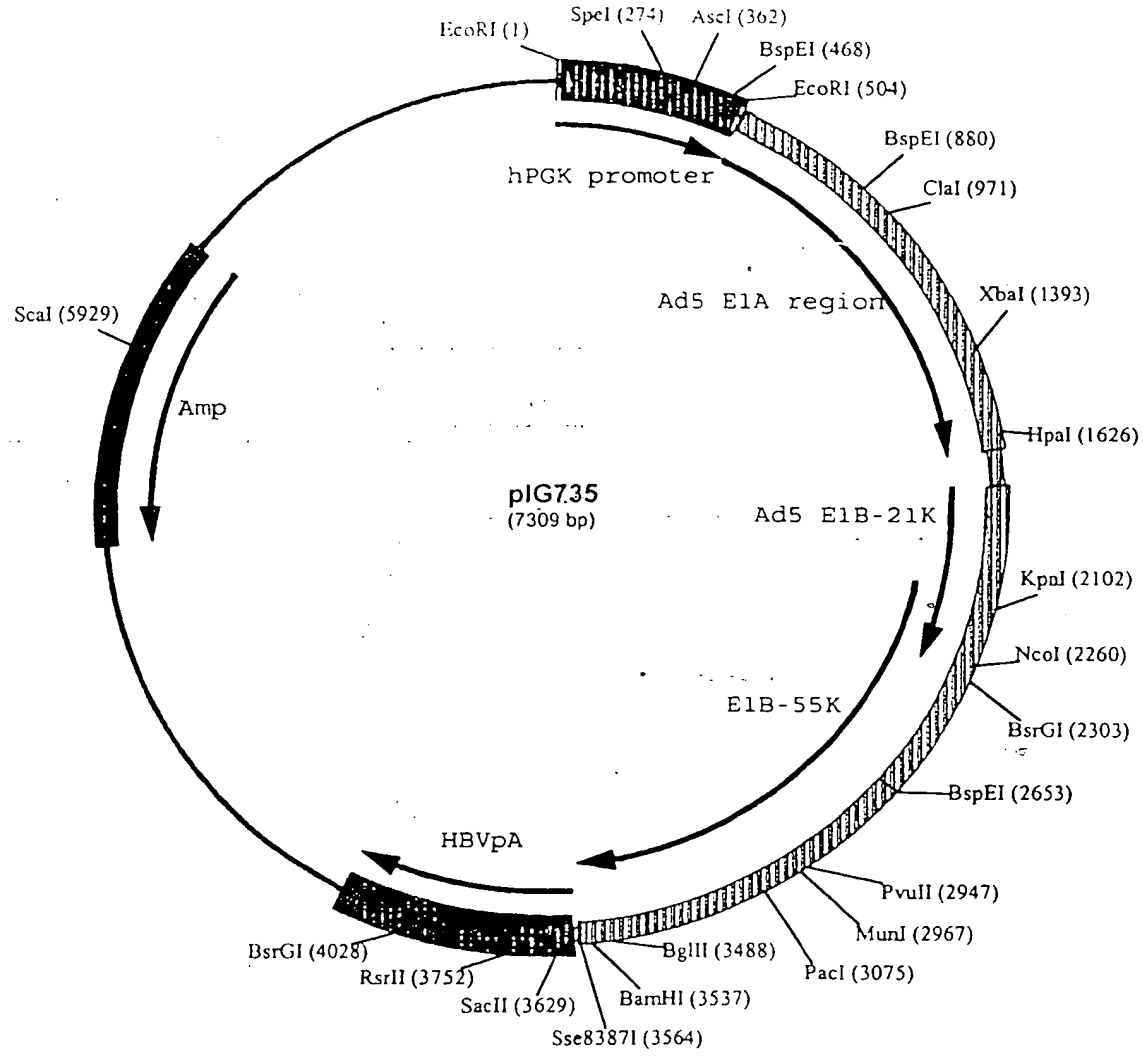

EcoRI (1)
SpeI (274)
AscI (362)
BspEI (468)
EcoRI (504)
BspEI (880)
ClaI (971)
XbaI (1393)
HpaI (1626)
KpnI (2102)
NcoI (2260)
BsrGI (2303)
BspEI (2653)
PvuII (2947)
MunI (2967)
PacI (3075)
BglII (3488)
BamHI (3537)
Sse8387I (3564)
SacII (3629)
RsrII (3752)
BsrGI (4028)
ScaI (5929)
hPGK promoter
Ad5 E1A region
Ad5 E1B-21K
E1B-55K
HBVpA
Amp
pIG735
(7309 bp)

Figure 28

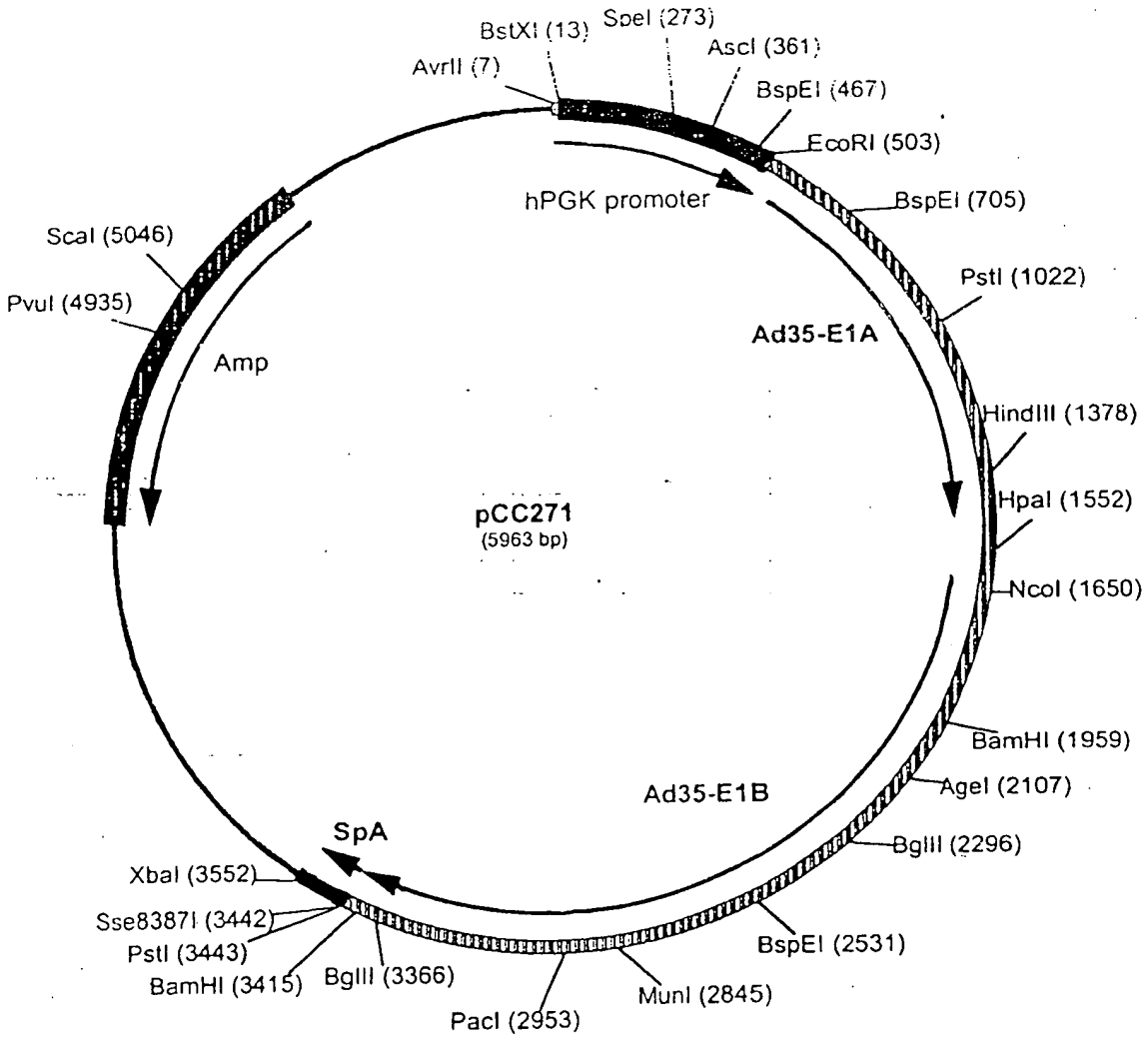

BstXI (13)
SpeI (273)
AscI (361)
AvrII (7)
BspEI (467)
EcoRI (503)
hPGK promoter
BspEI (705)
ScaI (5046)
PstI (1022)
PvuI (4935)
Ad35-E1A
Amp
HindIII (1378)
pCC271
(5963 bp)
HpaI (1552)
NcoI (1650)
BamHI (1959)
AgeI (2107)
Ad35-E1B
SpA
BglII (2296)
XbaI (3552)
Sse8387I (3442)
PstI (3443)
BspEI (2531)
BamHI (3415)
BglII (3366)
MunI (2845)
PacI (2953)

Figure 29

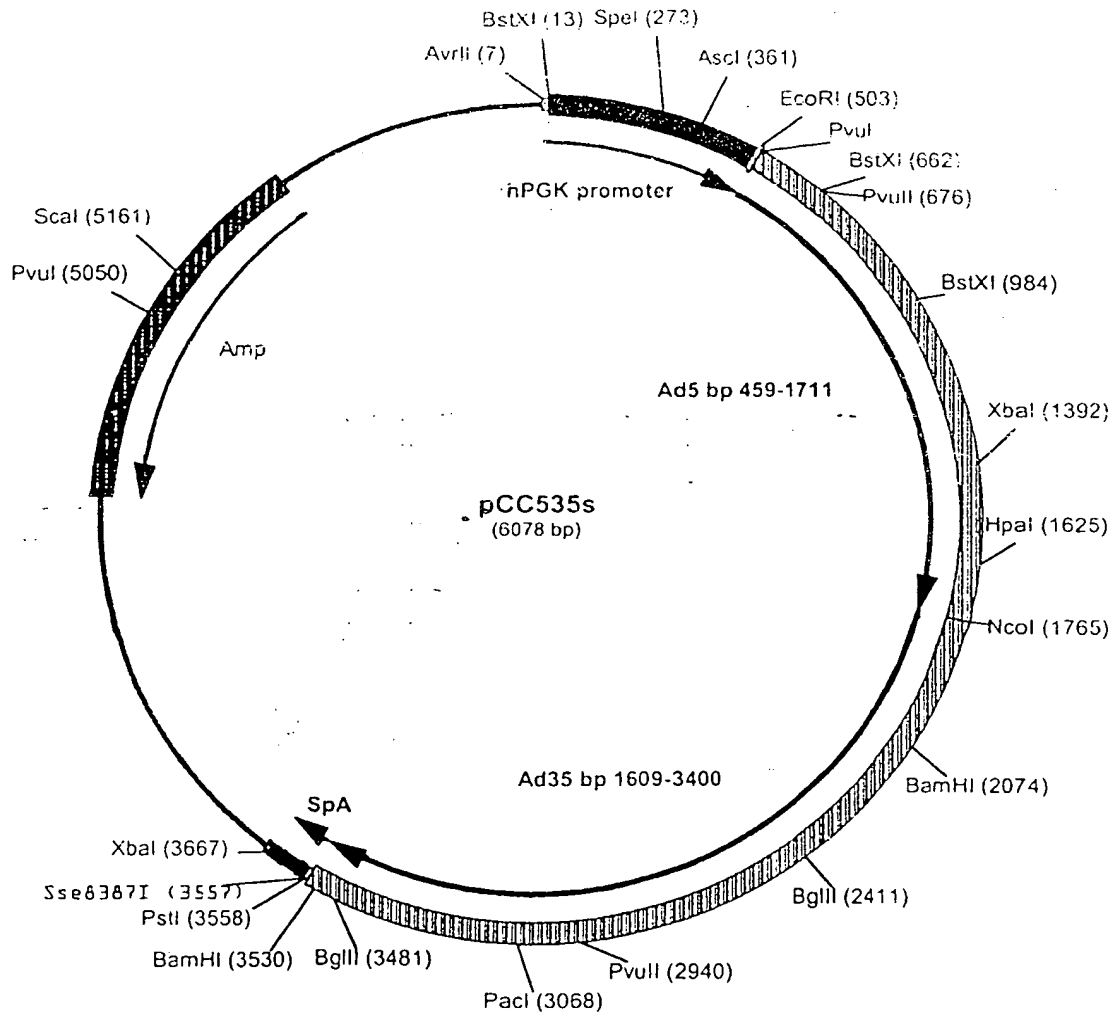

BstXI (13)
SpeI (273)
AvrII (7)
AscI (361)
EcoRI (503)
PvuI
BstXI (662)
PvuII (676)
hPGK promoter
ScaI (5161)
PvuI (5050)
Amp
BstXI (984)
Ad5 bp 459-1711
XbaI (1392)
pCC535s
(6078 bp)
HpaI (1625)
NcoI (1765)
Ad35 bp 1609-3400
BamHI (2074)
SpA
XbaI (3667)
Sse8387I (3557)
PstI (3558)
BglII (2411)
BamHI (3530)
BglII (3481)
PvuII (2940)
PacI (3068)

Figure 30

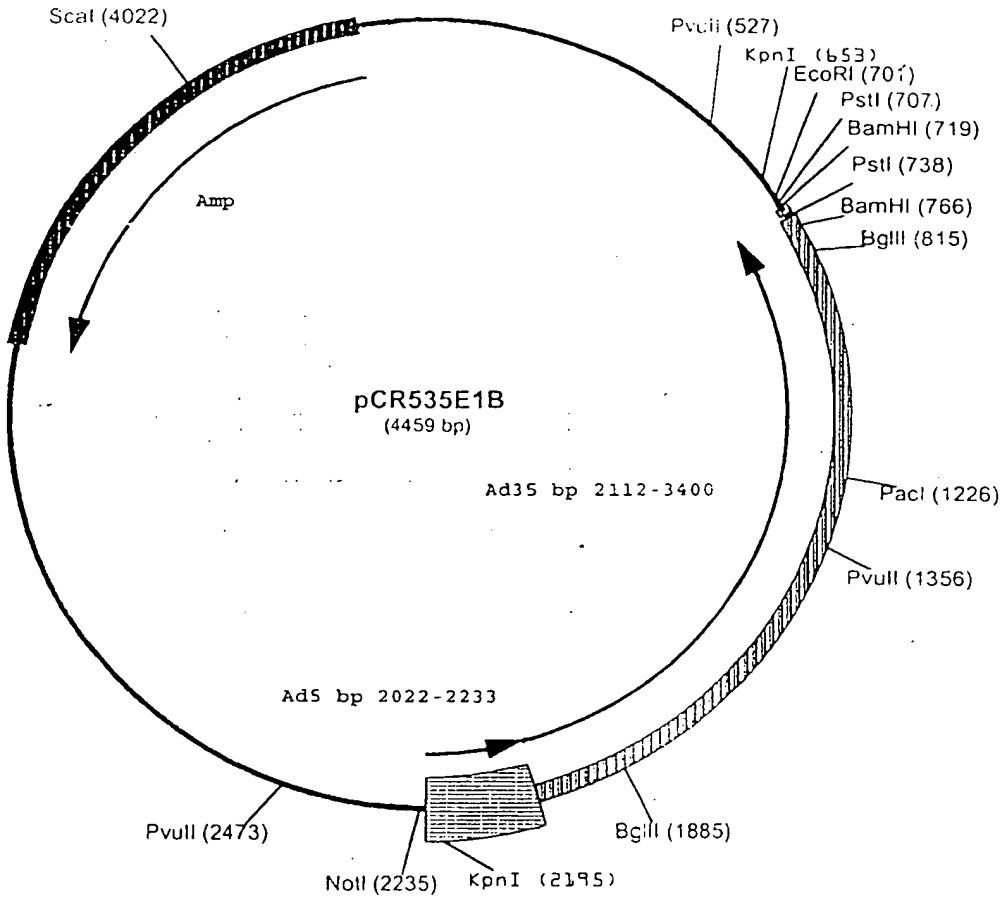

ScaI (4022)
PvuII (527)
KpnI (653)
EcoRI (707)
PstI (707)
BamHI (719)
PstI (738)
BamHI (766)
BglII (815)
Amp
pCR535E1B
(4459 bp)
Ad35 bp 2112-3400
PacI (1226)
PvuII (1356)
Ad5 bp 2022-2233
PvuII (2473)
NotI (2235)
KpnI (2195)
BglII (1885)

Figure 31

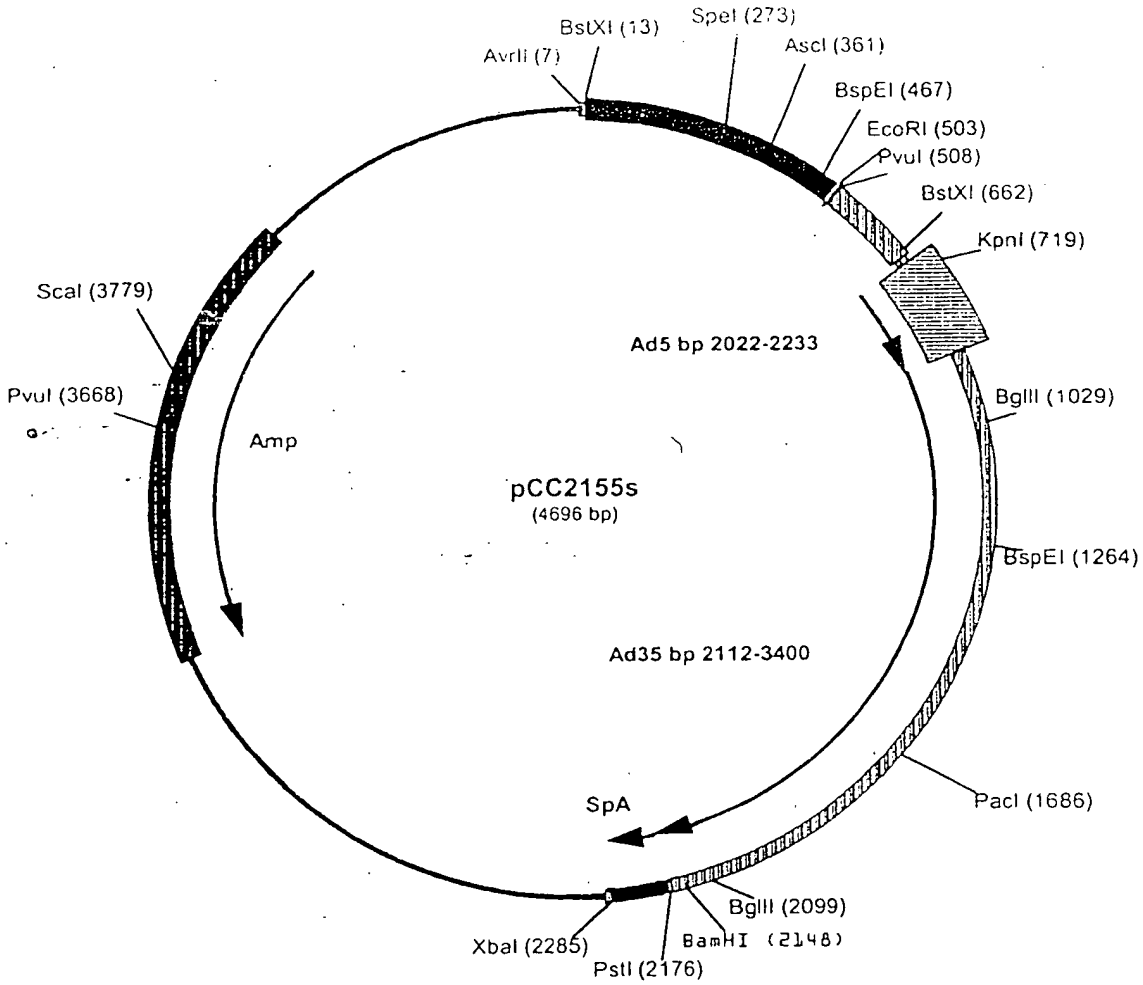

BstXI (13)
SpeI (273)
AvrII (7)
AscI (361)
BspEI (467)
EcoRI (503)
PvuI (508)
BstXI (662)
KpnI (719)
ScaI (3779)
Ad5 bp 2022-2233
PvuI (3668)
BglII (1029)
Amp
pCC2155s
(4696 bp)
BspEI (1264)
Ad35 bp 2112-3400
SpA
PacI (1686)
BglII (2099)
BamHI (2148)
XbaI (2285)
PstI (2176)

Figure 32

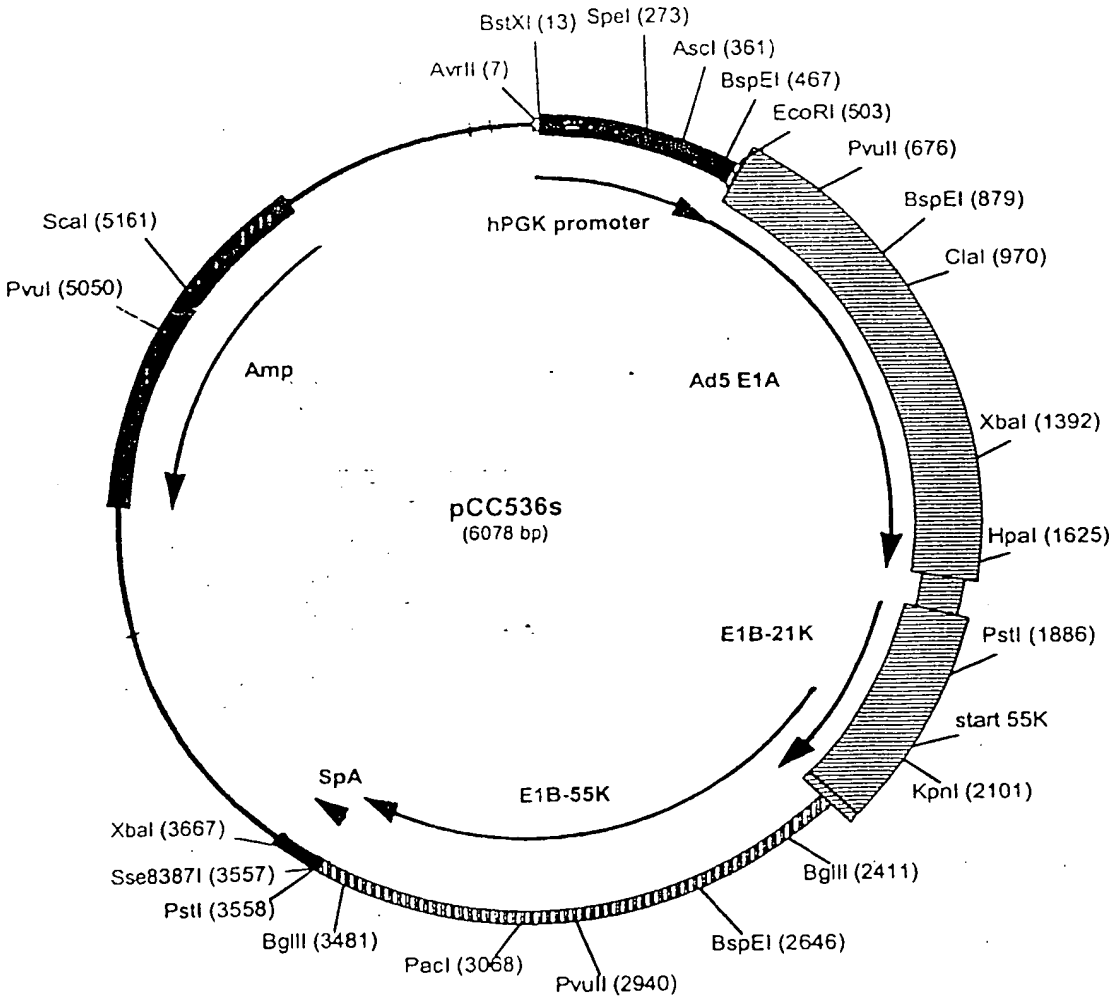

BstXI (13)
SpeI (273)
AscI (361)
AvrII (7)
BspEI (467)
EcoRI (503)
PvuII (676)
BspEI (879)
ClaI (970)
ScaI (5161)
hPGK promoter
PvuI (5050)
Amp
Ad5 E1A
XbaI (1392)
pCC536s
(6078 bp)
HpaI (1625)
E1B-21K
PstI (1886)
start 55K
SpA
E1B-55K
KpnI (2101)
XbaI (3667)
BglII (2411)
Sse8387I (3557)
PstI (3558)
BglII (3481)
BspEI (2646)
PacI (3068)
PvuII (2940)

Figure 33

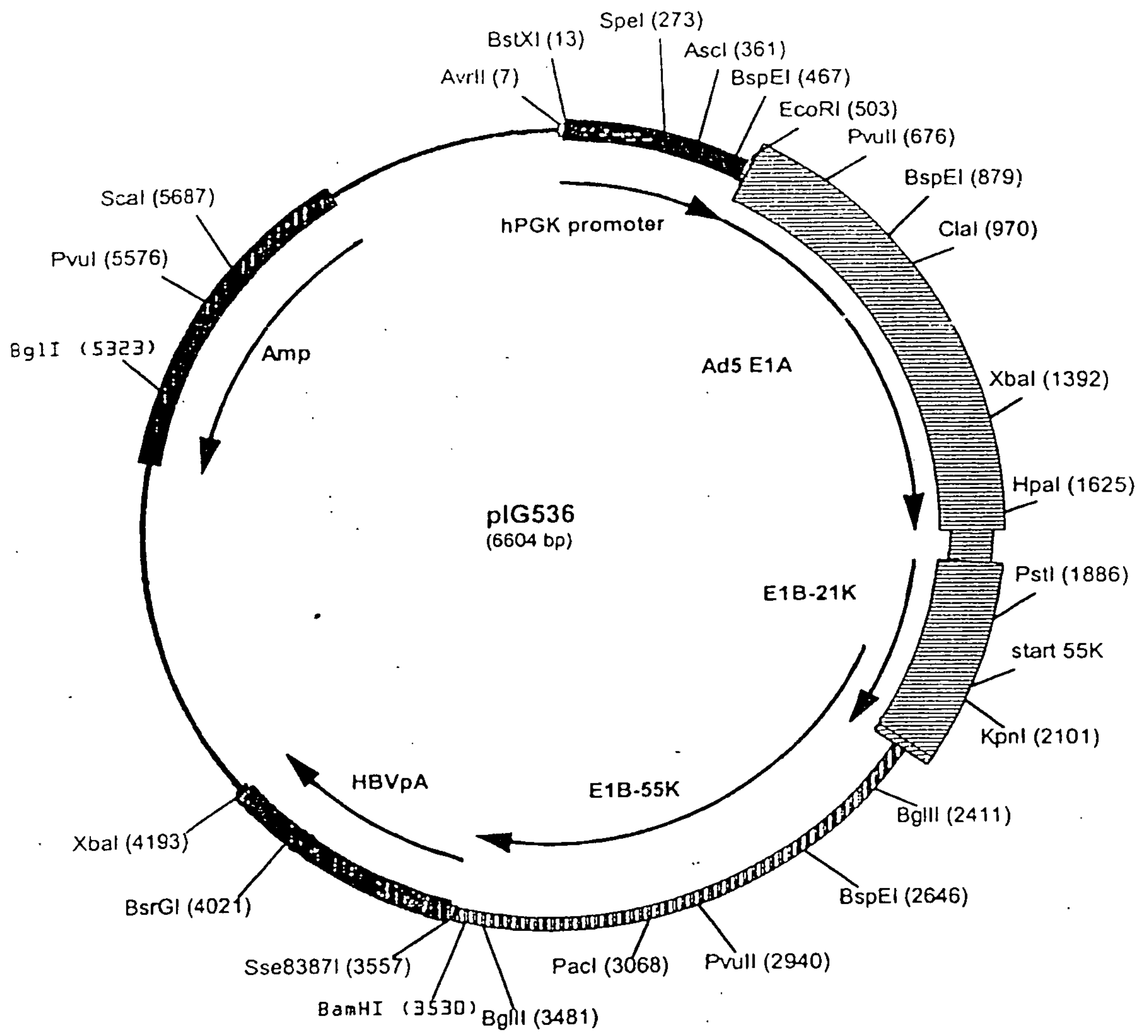

AvrII (7)
BstXI (13)
SpeI (273)
AscI (361)
BspEI (467)
EcoRI (503)
PvuII (676)
BspEI (879)
ClaI (970)
XbaI (1392)
HpaI (1625)
PstI (1886)
start 55K
KpnI (2101)
BglII (2411)
BspEI (2646)
PvuII (2940)
PacI (3068)
BglII (3481)
BamHI (3530)
Sse8387I (3557)
BsrGI (4021)
XbaI (4193)
BglI (5323)
PvuI (5576)
ScaI (5687)
hPGK promoter
Ad5 E1A
E1B-21K
E1B-55K
HBVpA
Amp
pIG536
(6604 bp)

Figure 34

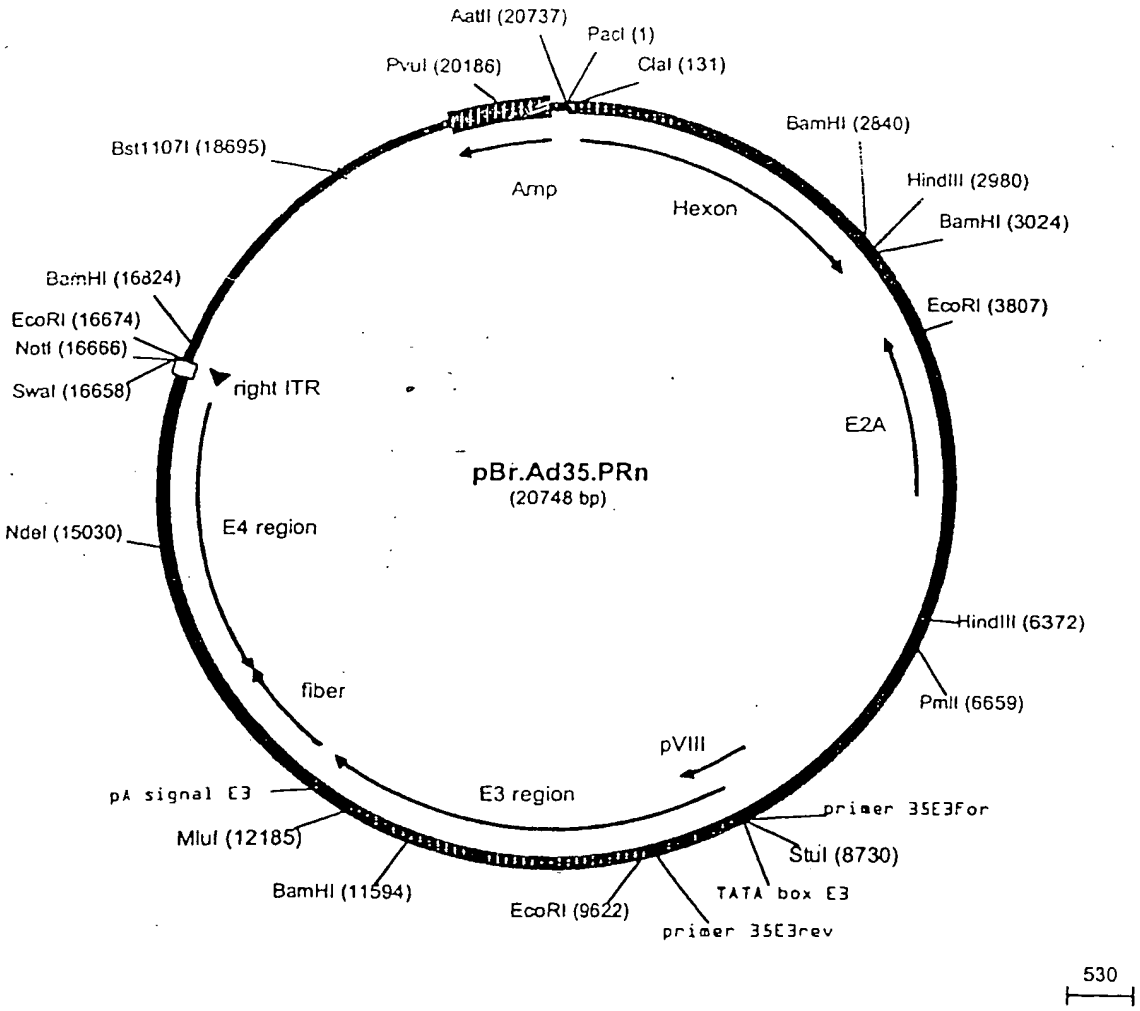

AatII (20737)
PacI (1)
PvuI (20186)
ClaI (131)
BamHI (2840)
Bst1107I (18695)
Amp
Hexon
HindIII (2980)
BamHI (3024)
BamHI (16824)
EcoRI (16674)
NotI (16666)
SwaI (16658)
right ITR
EcoRI (3807)
E2A
pBr.Ad35.PRn
(20748 bp)
NdeI (15030)
E4 region
HindIII (6372)
PmlI (6659)
fiber
pVIII
pA signal E3
E3 region
primer 35E3For
MluI (12185)
StuI (8730)
BamHI (11594)
EcoRI (9622)
TATA box E3
primer 35E3rev
530

Figure 35

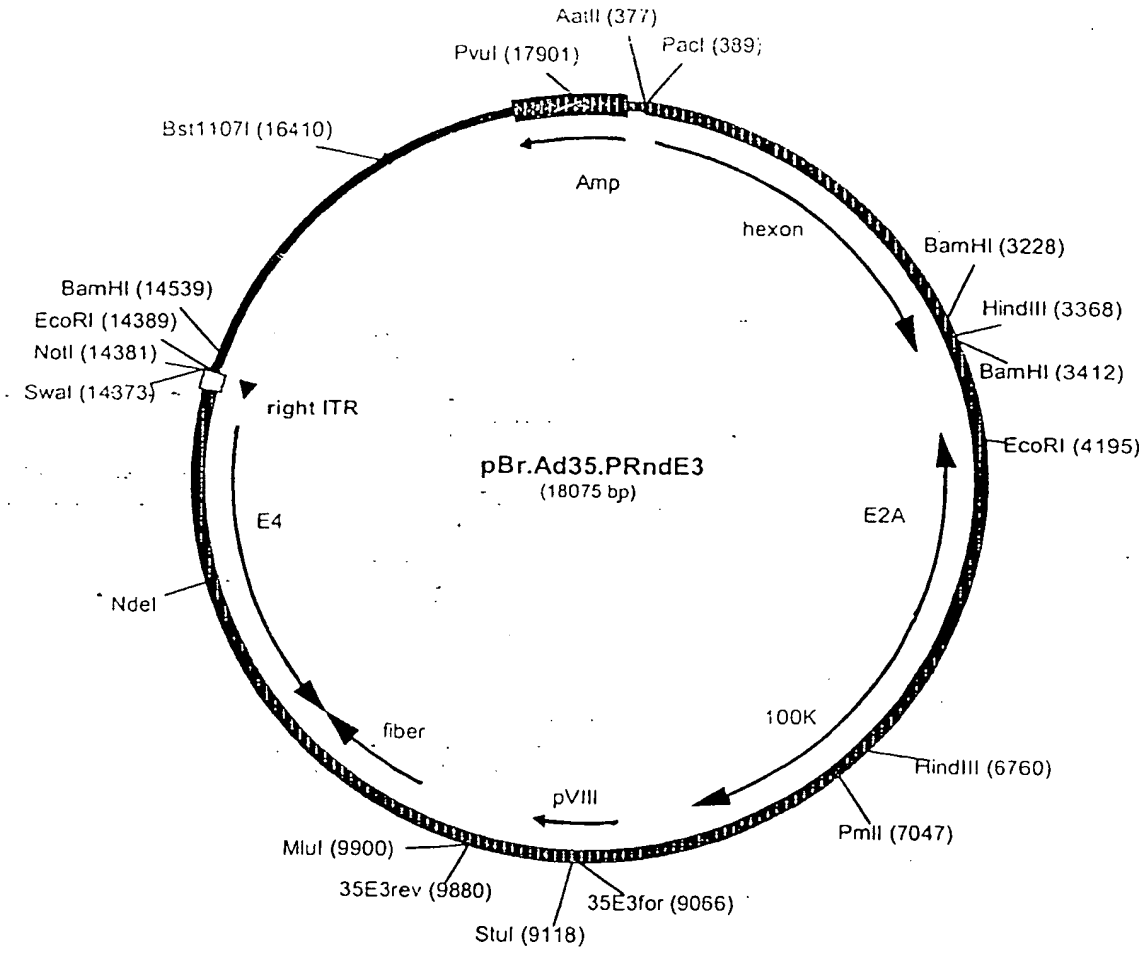

AatII (377)
PacI (389)
PvuI (17901)
Bst1107I (16410)
Amp
hexon
BamHI (3228)
HindIII (3368)
BamHI (3412)
EcoRI (4195)
BamHI (14539)
EcoRI (14389)
NotI (14381)
SwaI (14373)
right ITR
pBr.Ad35.PRndE3
(18075 bp)
E4
E2A
NdeI
fiber
100K
HindIII (6760)
pVIII
PmlI (7047)
MluI (9900)
35E3rev (9880)
35E3for (9066)
StuI (9118)
462

Figure 36

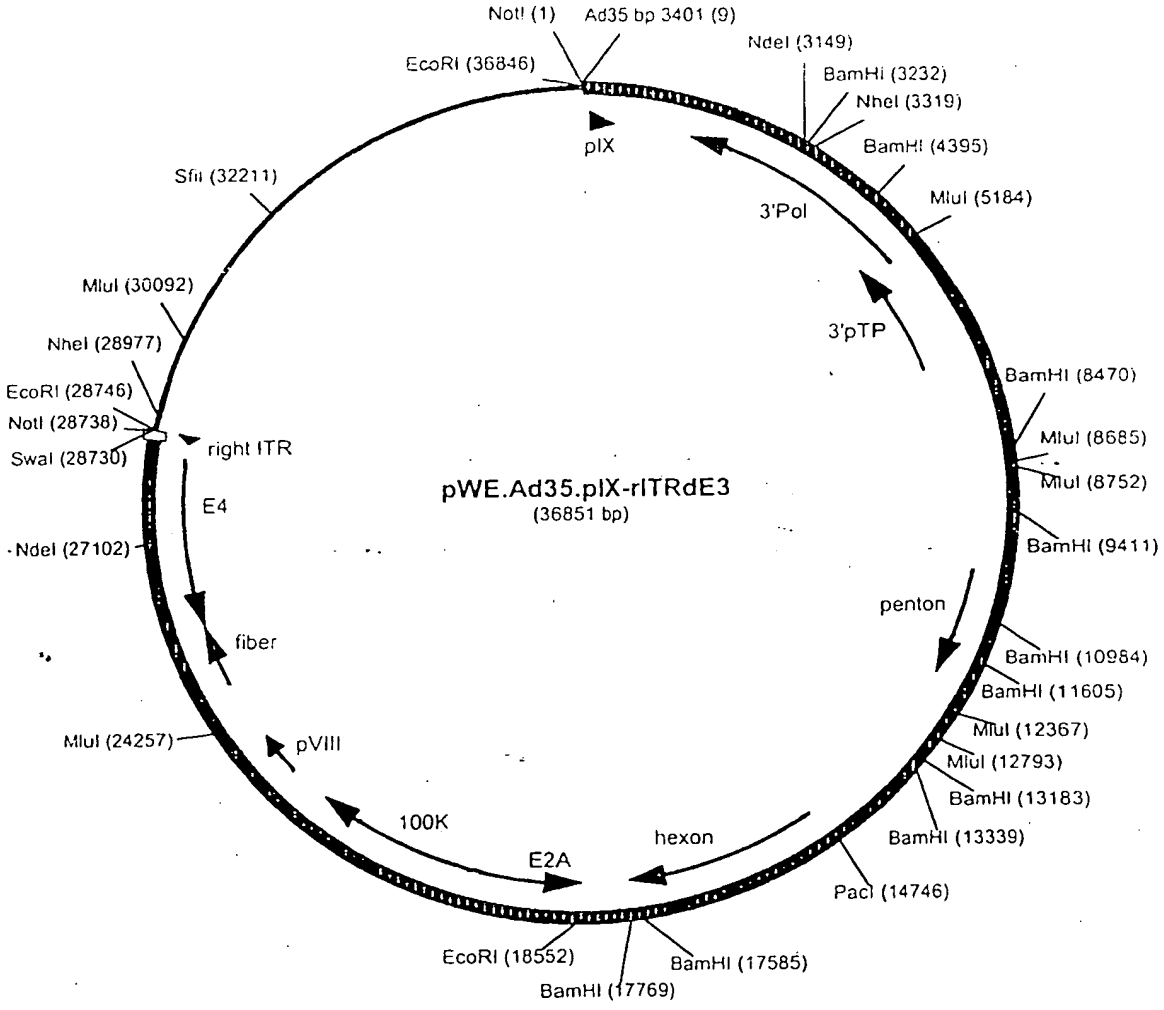
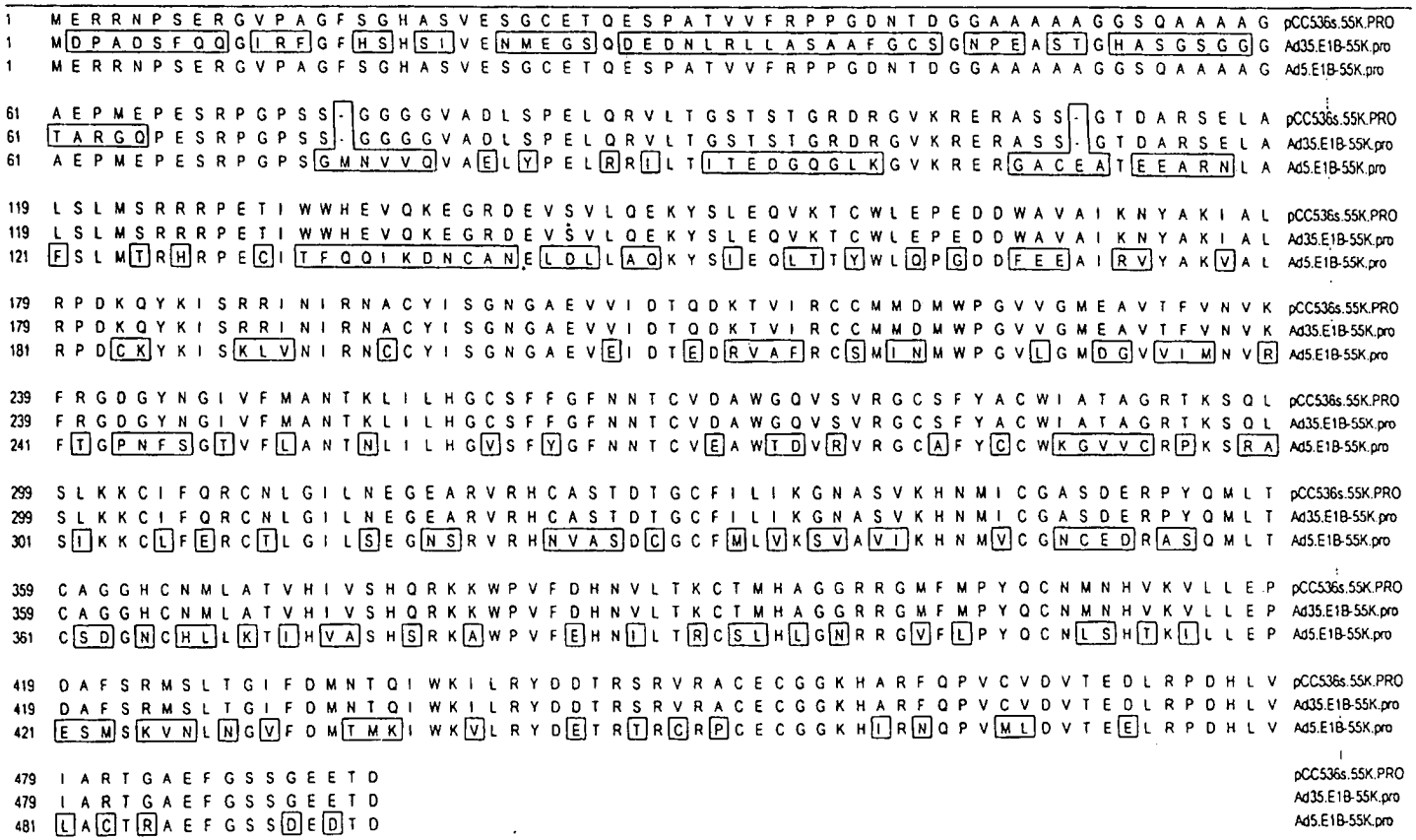

NotI (1)
Ad35 bp 3401 (9)
NdeI (3149)
EcoRI (36846)
BamHI (3232)
NheI (3319)
pIX
BamHI (4395)
SfiI (32211)
MluI (5184)
3'Pol
MluI (30092)
3'pTP
NheI (28977)
BamHI (8470)
EcoRI (28746)
NotI (28738)
MluI (8685)
right ITR
SwaI (28730)
MluI (8752)
pWE.Ad35.pIX-rITRdE3
(36851 bp)
E4
NdeI (27102)
BamHI (9411)
penton
fiber
BamHI (10984)
BamHI (11605)
MluI (24257)
pVIII
MluI (12367)
MluI (12793)
BamHI (13183)
100K
BamHI (13339)
hexon
E2A
PacI (14746)
EcoRI (18552)
BamHI (17585)
BamHI (17769)

Figure 37 B: Alignment of E1B-55K sequences from pCC536s, wtAd35 and wtAd5



Decoration 'Decoration #1': Box residues that differ from pCC536s.55K.PRO.

Figure 37 A: Alignment of E1B-21K sequences from pCC536s, wtAd35 and wtAd5